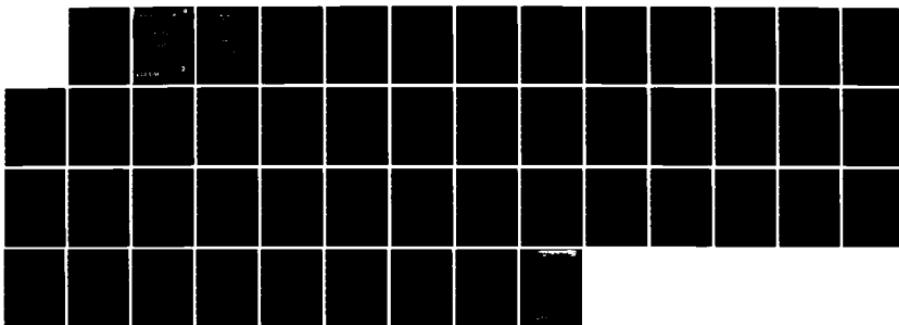
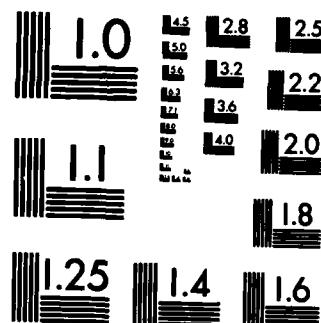


AD-A146 483 19321 AT MLRS MISSILE NUMBER 421 379 464 377 401 367 1/1
ROUND NUMBER Y635/FE. (U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER AUG 84
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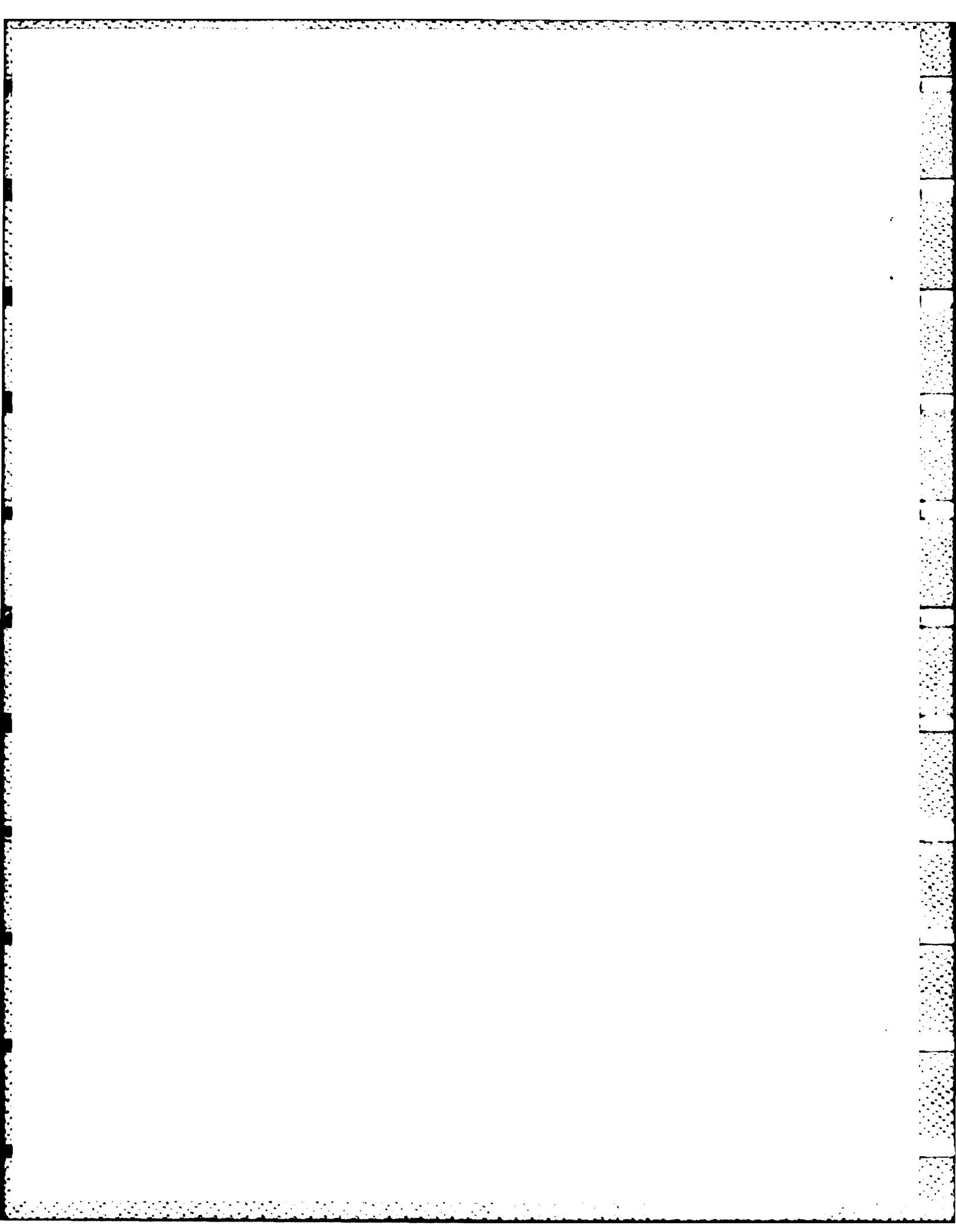
REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-1354	2. GOVT ACCESSION NO AD-A146 483	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19321 AT MLRS Missile Number 421, 379, 464, 377, 401, 367 Round Number V635/FE-7 Thru V640/FE-12		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) White Sands Meteorological Team		6. PERFORMING ORG. REPORT NUMBER DA Task 1F665702P127-02
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18. SUPPLEMENTARY NOTES		
19. (If necessary, continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19321 AT MLRS, Missile Number 421, 379, 464, 377, 401, 367, Round Number V635/FE-7 thru V640/FE-12 are presented in tabular form.		

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INTRODUCTION

19321AT MLRS, Missile Number 421, 379, 464, 377, 401 and 367, Round Number V635/FE-7 thru V640/FE-12, were launched from Tula Gate, White Sands Missile Range (WSMR), New Mexico, at 1048:13, 1048:18, 1048:22, 1048:27, 1048:31 and 1048:36 MDT, 3 Aug 84. The scheduled launch times were 0850 MDT with a 4.5 second separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the Tula Gate Met Site at T-0 minutes.

(2) Anemometer data were provided from existing tower-mounted anemometers at Tula Gate. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

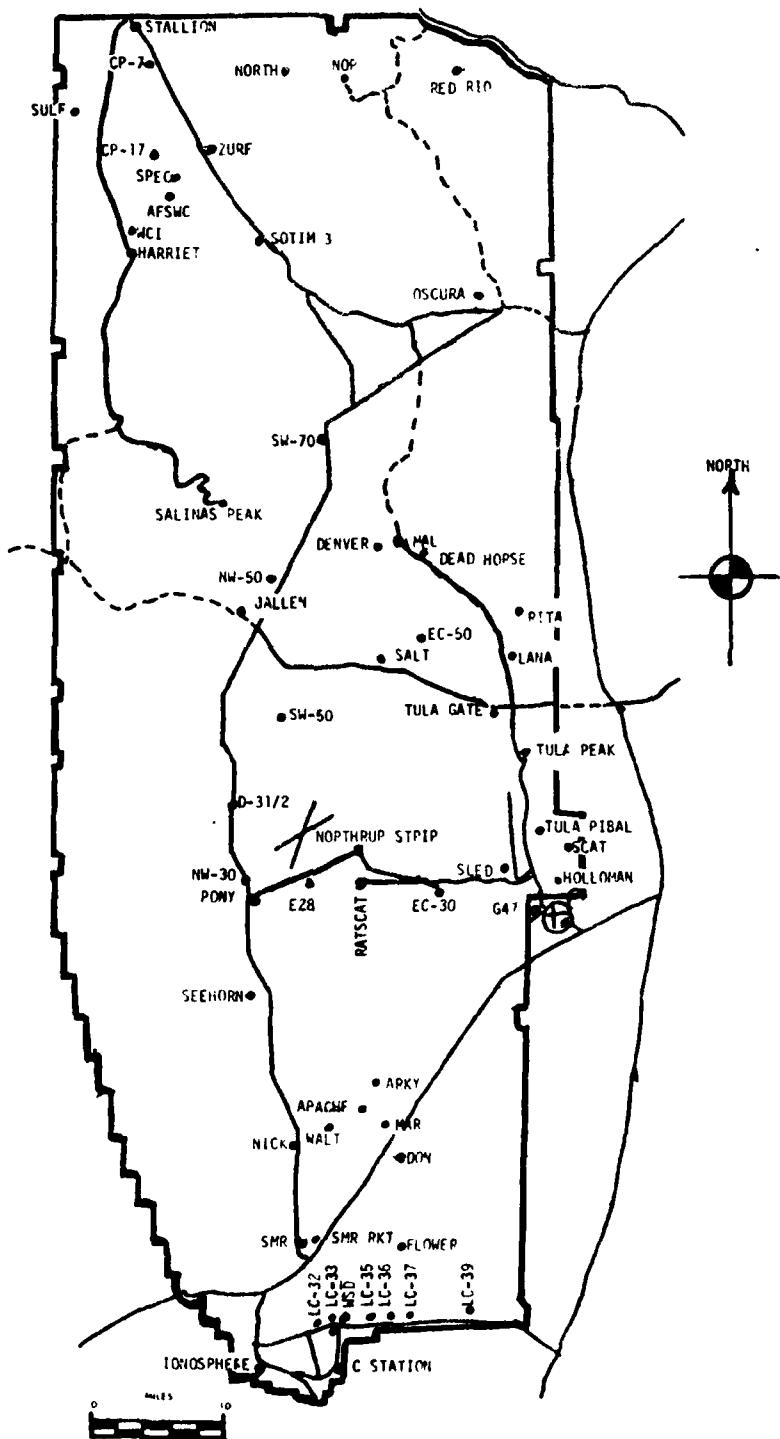
TULA GATE 2 km
DEAD HORSE 2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

RITA	0720 MDT
SALT SOTIM	0720 MDT
TULA GATE	0900 MDT
RITA	0900 MDT
SALT SOTIM	0900 MDT
TULA GATE	1048 MDT
RITA	1048 MDT
SALT SOTIM	1048 MDT

WSMR METEOROLOGICAL SITES



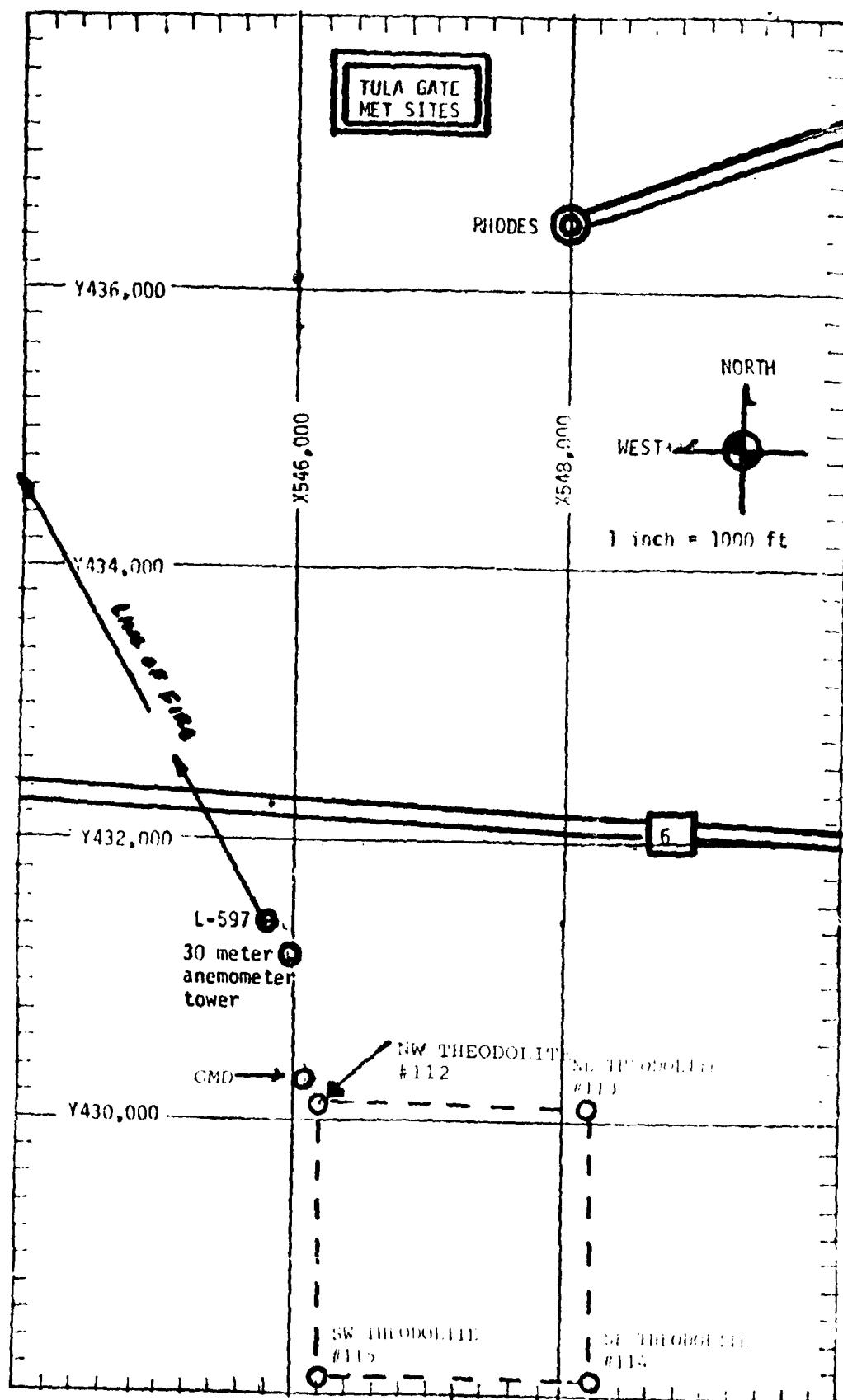


TABLE 1
DATE 3 Aug 1984

TIME	PRESSURE MB	RELATIVE HUMIDITY %	TEMP C	RELATIVE HUMIDITY %	TEMP C	RELATIVE HUMIDITY %	TEMP C
1048	879.2	25.4	19.7	61			

OBSTRUCTIONS TO VISIBILITY	CLOUDS				RELATIVE HUMIDITY %	TEMP C	RELATIVE HUMIDITY %
	1st LAYER AMT	TYPE	2nd LAYER AMT	TYPE			
1	CI	25,000					

OXYGENETIC COMPUTATION

TIME: MDT	1048
DRY BULB TEMP.	25.4
WET BULB TEMP.	19.7
NET BULB DEPR.	5.7
DEW POINT	17.3
RELATIVE HUMID.	61

TABLE 2

ANEMOMETER DATA - 30 Ft Level of 30 Meter Tower

X= 545,944.89 Y= 431,158.70 H= 4102.47 (BASE)

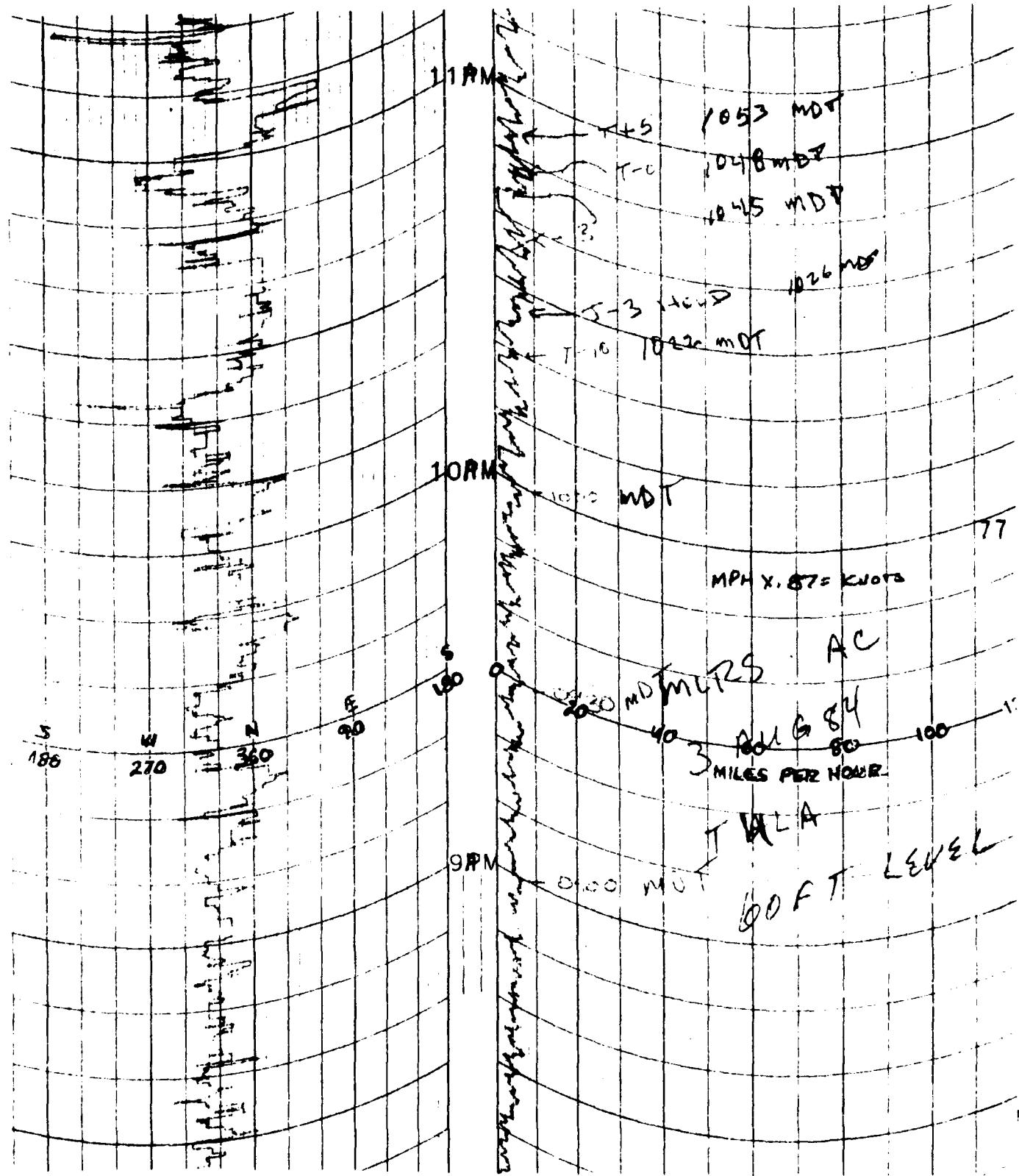


TABLE 3

ANEMOMETER DATA - 60 Ft Level or 30 Meter Tower

X= 545,944.89 Y= 431,158.70 H= 410.37 (BASE)

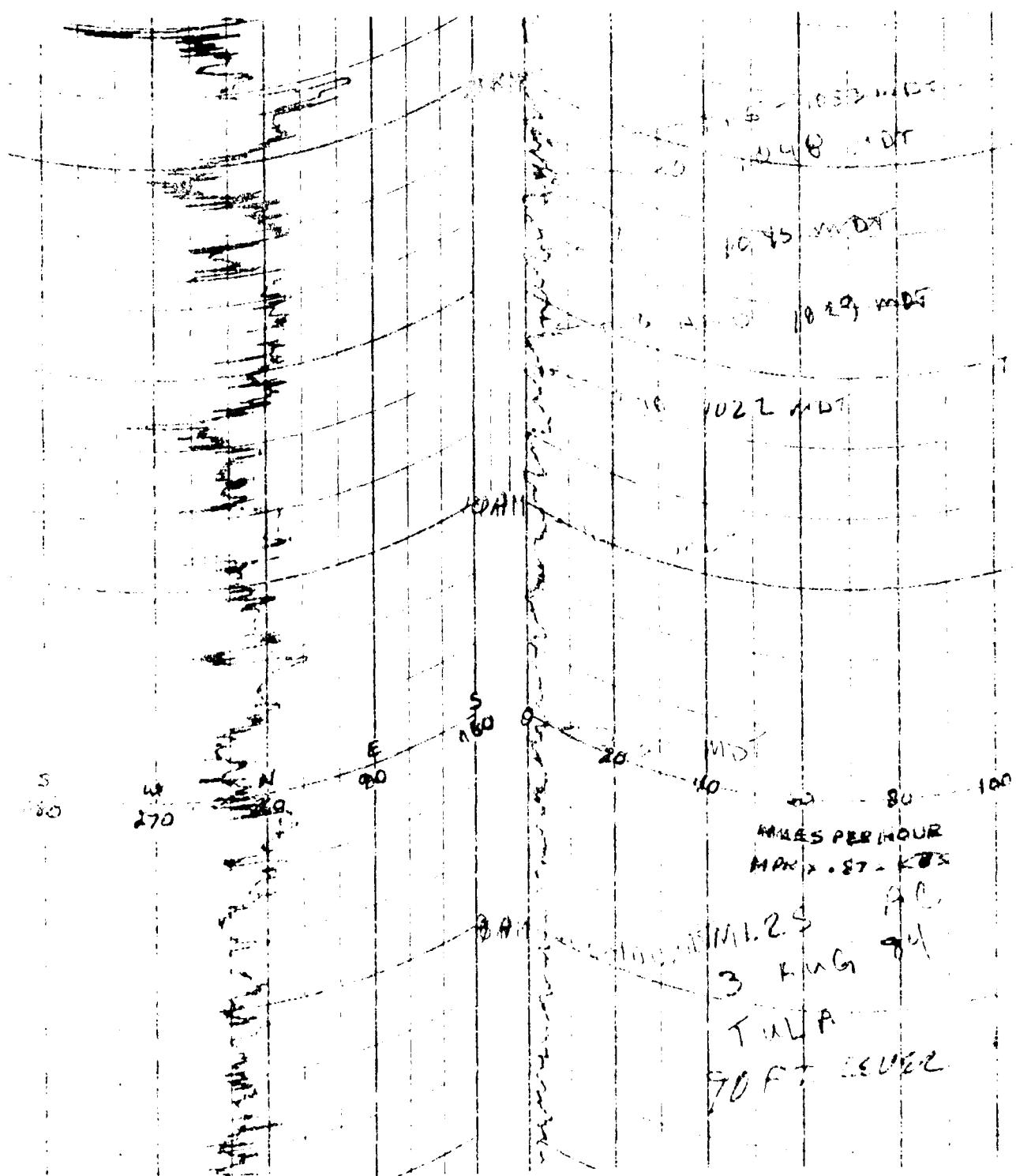


TABLE 4

ANEMOMETER DATA - 90 Ft Level of 30 Meter Tower
X = 545,944.89 Y = 431,158.70 H = 4102.47 (BASE)

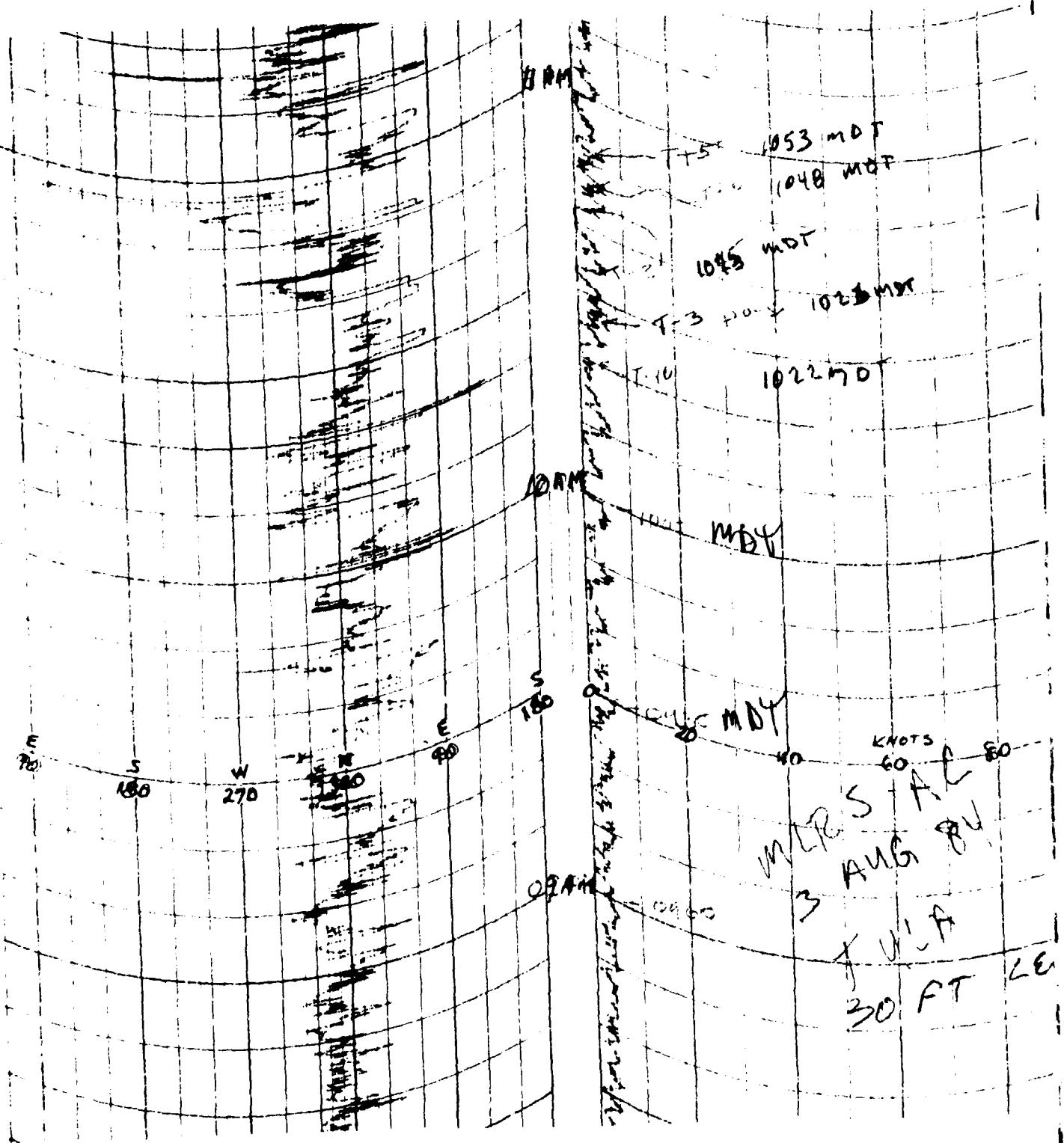


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 3 August 1984

SITE: TULA GATE

TIME: 1048 MDT

WSTM COORDINATES:

X= 546,264.20

Y= 430,126.39

H= 4,108.59

SITE: DEADHORSE

TIME 1048 MDT

WSTM COORDINATES

X= 512,382.17

Y= 430,241.77

H= 4,133.12

LAYER MIDPOINT METERS ASL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS ASL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	020	06			
150	360	05	150	352	04
210	340	04	210	355	05
270	340	04	270	356	04
330	340	04	330	358	03
390	340	03	390	351	03
450	340	03	500	325	02
510	320	01	650	329	04
570	320	02	800	356	07
950	340	03	950	009	10
1150	360	05	1150	015	09
1350	020	06	1350	007	10
1550	000	10	1550	017	11
1750	030	11	1750	030	14
2000	030	10	2000	034	20

All data obtained from double inedolite tracked Pilot-Balloon, 1048 MDT.

TABLE 6

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

3 August 1984

RITA 0720 MDT	SALT SOTIM 0720 MDT	TULA GATE 0900 MDT	RITA 0900 MDT
METCM1332062	METCM1331064	METCM1331062	METCM1332062
031330128877	031330123881	031500125880	031500128878
00160002 29360877	00000000 29360881	00622004 29820880	00480002 29840878
01636007 29440867	01550002 29400871	01616004 29670870	01593003 29700867
02075002 29470842	02117005 29410846	02627005 29510845	02613005 29460843
03152001 29280804	03639002 29240807	03112002 29320807	03000000 29280805
04605006 29030758	04013006 29110761	04623003 29070761	04030006 28950759
05007013 28750715	05009015 28840718	05034014 28770717	05030013 28720715
06008015 28440674	06009016 28490676	06025017 28430676	06039015 28380674
07034011 28090634	07016013 28140637	07035013 28100636	07028010 27980634
08070011 27670597	08070011 27760599	08039010 27780599	08050009 27610597
09075014 27340561	09090015 27430563	09058009 27420563	09064010 27260561
10073009 27030527	10103012 27080529	10066010 27150529	10048007 26980527
11010008 26680494	11033010 26730497	11003007 26830496	11635007 26620494
12631009 26230449	12625013 26290451	12624008 26380451	12633007 26190448
13629012 25600393	13008011 25640396	13632009 25790396	13001010 25580393
14583011 24910344	14578011 24920346	14003009 25070346	14604007 24820343
15500011 24170299	15490011 24170301	15527010 24350302	15514012 24070299

SALT SOTIM 0900 MDT	TULA GATE 1048 MDT	RITA 1048 MDT	SALT SOTIM 1048 MDT
METCM1331064	METCM1331062	METCM1332062	METCM1331064
031500123881	031680125879	031680128877	031680123881
00036003 29830881	00622005 30090879	00160002 30130877	00000000 30240881
01616005 29620871	01603011 29910869	01628002 29900867	01005003 30010871
02036003 29480846	02615005 29670845	02008004 29640843	02626004 29680846
03000000 29330808	03609001 29370806	03554003 29330805	03007004 29400808
04032005 29080762	04032007 29050761	04056008 29040759	04049008 29130762
05027014 28830718	05064012 28820717	05063010 28780716	05052015 28820719
06038019 28440677	06047011 28460676	06030011 28400674	06033015 28460677
07044016 28080637	07040010 28090636	07050010 28020635	07027011 28110638
08059010 27740600	08050008 27730599	08054009 27660597	08075007 27760600
09077009 27400564	09060010 27450563	09072011 27340561	09088009 27410564
10074008 27100529	10056010 27110529	10041008 27030527	10056008 27100530
11631007 26760497	11009009 26790496	11002009 26680495	11021007 26770497
12589010 26280451	12633004 26400451	12630004 26310449	12638007 26400452
13626012 25650396	13001007 25760396	13001007 25660394	13629008 25700396
14623007 24880346	14617006 24950346	14586006 24910344	14595005 24950346
15524011 24170301	15537008 24200301	15513008 24130300	15507009 24170302

STATION ALTITUDE 1555.75 FT. MSL
3 AUG. 1970
ASCENTION NO.

STATION NUMBER 1001
DATE 3 AUG. 1970
TIME 0700 MDT

GEODETIC COORDINATES
53-18225 LAT DEG
46-15114 LON DEG

TABLE 7

PRESSURE EQUIVALENT ELEVATION MSL (ft)	STATION ALTITUDE MSL (ft)	TEMPERATURE AT STATION DEGREE CELSIUS	WIND DIRECTION DEGREE	WIND SPEED METERS PER SECOND	PRECIPITATION MM PER HOUR
907.5	4196.7	16.0	15.4	2.0	
917.5	4491.6	17.0	12.9	66.0	
926.5	5076.5	22.0	14.5	66.0	
935.5	5910.2	14.0	5.9	65.0	
765.0	1951.0	11.0	2.4	65.0	
644.0	1772.5	7.0	2.4	62.0	
622.0	1561.0	1.0	2.4	65.0	
612.0	1475.0	-1.0	2.4	69.0	
607.0	1379.0	-2.0	2.4	69.0	
602.0	1292.0	-3.0	2.4	51.0	
597.0	1197.0	-5.0	2.4	65.0	
592.0	1092.0	-6.0	2.4	92.0	
587.0	987.0	-6.0	2.4	76.0	
582.0	882.0	-9.0	2.4	91.0	
577.0	777.0	-10.0	2.4	81.0	
572.0	672.0	-11.0	2.4	81.0	
567.0	567.0	-12.0	2.4	81.0	
562.0	462.0	-16.0	2.4	59.0	
557.0	357.0	-17.0	2.4	62.0	
552.0	252.0	-17.0	2.4	62.0	
547.0	147.0	-17.0	2.4	62.0	
542.0	42.0	-17.0	2.4	62.0	
537.0	-15.0	-17.0	2.4	62.0	
532.0	-30.0	-17.0	2.4	62.0	
527.0	-45.0	-17.0	2.4	62.0	
522.0	-60.0	-17.0	2.4	62.0	
517.0	-75.0	-17.0	2.4	62.0	
512.0	-90.0	-17.0	2.4	62.0	
507.0	-105.0	-17.0	2.4	62.0	
502.0	-120.0	-17.0	2.4	62.0	
497.0	-135.0	-17.0	2.4	62.0	
492.0	-150.0	-17.0	2.4	62.0	
487.0	-165.0	-17.0	2.4	62.0	
482.0	-180.0	-17.0	2.4	62.0	
477.0	-195.0	-17.0	2.4	62.0	
472.0	-210.0	-17.0	2.4	62.0	
467.0	-225.0	-17.0	2.4	62.0	
462.0	-240.0	-17.0	2.4	62.0	
457.0	-255.0	-17.0	2.4	62.0	
452.0	-270.0	-17.0	2.4	62.0	
447.0	-285.0	-17.0	2.4	62.0	
442.0	-300.0	-17.0	2.4	62.0	
437.0	-315.0	-17.0	2.4	62.0	
432.0	-330.0	-17.0	2.4	62.0	
427.0	-345.0	-17.0	2.4	62.0	
422.0	-360.0	-17.0	2.4	62.0	
417.0	-375.0	-17.0	2.4	62.0	
412.0	-390.0	-17.0	2.4	62.0	
407.0	-405.0	-17.0	2.4	62.0	
402.0	-420.0	-17.0	2.4	62.0	
397.0	-435.0	-17.0	2.4	62.0	
392.0	-450.0	-17.0	2.4	62.0	
387.0	-465.0	-17.0	2.4	62.0	
382.0	-480.0	-17.0	2.4	62.0	
377.0	-495.0	-17.0	2.4	62.0	
372.0	-510.0	-17.0	2.4	62.0	
367.0	-525.0	-17.0	2.4	62.0	
362.0	-540.0	-17.0	2.4	62.0	
357.0	-555.0	-17.0	2.4	62.0	
352.0	-570.0	-17.0	2.4	62.0	
347.0	-585.0	-17.0	2.4	62.0	
342.0	-600.0	-17.0	2.4	62.0	
337.0	-615.0	-17.0	2.4	62.0	
332.0	-630.0	-17.0	2.4	62.0	
327.0	-645.0	-17.0	2.4	62.0	
322.0	-660.0	-17.0	2.4	62.0	
317.0	-675.0	-17.0	2.4	62.0	
312.0	-690.0	-17.0	2.4	62.0	
307.0	-705.0	-17.0	2.4	62.0	
302.0	-720.0	-17.0	2.4	62.0	
297.0	-735.0	-17.0	2.4	62.0	
292.0	-750.0	-17.0	2.4	62.0	
287.0	-765.0	-17.0	2.4	62.0	
282.0	-780.0	-17.0	2.4	62.0	
277.0	-795.0	-17.0	2.4	62.0	
272.0	-810.0	-17.0	2.4	62.0	
267.0	-825.0	-17.0	2.4	62.0	
262.0	-840.0	-17.0	2.4	62.0	
257.0	-855.0	-17.0	2.4	62.0	
252.0	-870.0	-17.0	2.4	62.0	
247.0	-885.0	-17.0	2.4	62.0	
242.0	-900.0	-17.0	2.4	62.0	
237.0	-915.0	-17.0	2.4	62.0	
232.0	-930.0	-17.0	2.4	62.0	
227.0	-945.0	-17.0	2.4	62.0	
222.0	-960.0	-17.0	2.4	62.0	
217.0	-975.0	-17.0	2.4	62.0	
212.0	-990.0	-17.0	2.4	62.0	
207.0	-1005.0	-17.0	2.4	62.0	
202.0	-1020.0	-17.0	2.4	62.0	
197.0	-1035.0	-17.0	2.4	62.0	
192.0	-1050.0	-17.0	2.4	62.0	
187.0	-1065.0	-17.0	2.4	62.0	
182.0	-1080.0	-17.0	2.4	62.0	
177.0	-1095.0	-17.0	2.4	62.0	
172.0	-1110.0	-17.0	2.4	62.0	
167.0	-1125.0	-17.0	2.4	62.0	
162.0	-1140.0	-17.0	2.4	62.0	
157.0	-1155.0	-17.0	2.4	62.0	
152.0	-1170.0	-17.0	2.4	62.0	
147.0	-1185.0	-17.0	2.4	62.0	
142.0	-1200.0	-17.0	2.4	62.0	
137.0	-1215.0	-17.0	2.4	62.0	
132.0	-1230.0	-17.0	2.4	62.0	
127.0	-1245.0	-17.0	2.4	62.0	
122.0	-1260.0	-17.0	2.4	62.0	
117.0	-1275.0	-17.0	2.4	62.0	
112.0	-1290.0	-17.0	2.4	62.0	
107.0	-1305.0	-17.0	2.4	62.0	
102.0	-1320.0	-17.0	2.4	62.0	
97.0	-1335.0	-17.0	2.4	62.0	
92.0	-1350.0	-17.0	2.4	62.0	
87.0	-1365.0	-17.0	2.4	62.0	
82.0	-1380.0	-17.0	2.4	62.0	
77.0	-1395.0	-17.0	2.4	62.0	
72.0	-1410.0	-17.0	2.4	62.0	
67.0	-1425.0	-17.0	2.4	62.0	
62.0	-1440.0	-17.0	2.4	62.0	
57.0	-1455.0	-17.0	2.4	62.0	
52.0	-1470.0	-17.0	2.4	62.0	
47.0	-1485.0	-17.0	2.4	62.0	
42.0	-1500.0	-17.0	2.4	62.0	
37.0	-1515.0	-17.0	2.4	62.0	
32.0	-1530.0	-17.0	2.4	62.0	
27.0	-1545.0	-17.0	2.4	62.0	
22.0	-1560.0	-17.0	2.4	62.0	
17.0	-1575.0	-17.0	2.4	62.0	
12.0	-1590.0	-17.0	2.4	62.0	
7.0	-1605.0	-17.0	2.4	62.0	
2.0	-1620.0	-17.0	2.4	62.0	
-3.0	-1635.0	-17.0	2.4	62.0	
-8.0	-1650.0	-17.0	2.4	62.0	
-13.0	-1665.0	-17.0	2.4	62.0	
-18.0	-1680.0	-17.0	2.4	62.0	
-23.0	-1695.0	-17.0	2.4	62.0	
-28.0	-1710.0	-17.0	2.4	62.0	
-33.0	-1725.0	-17.0	2.4	62.0	
-38.0	-1740.0	-17.0	2.4	62.0	
-43.0	-1755.0	-17.0	2.4	62.0	
-48.0	-1770.0	-17.0	2.4	62.0	
-53.0	-1785.0	-17.0	2.4	62.0	
-58.0	-1800.0	-17.0	2.4	62.0	
-63.0	-1815.0	-17.0	2.4	62.0	
-68.0	-1830.0	-17.0	2.4	62.0	
-73.0	-1845.0	-17.0	2.4	62.0	
-78.0	-1860.0	-17.0	2.4	62.0	
-83.0	-1875.0	-17.0	2.4	62.0	
-88.0	-1890.0	-17.0	2.4	62.0	
-93.0	-1905.0	-17.0	2.4	62.0	
-98.0	-1920.0	-17.0	2.4	62.0	
-103.0	-1935.0	-17.0	2.4	62.0	
-108.0	-1950.0	-17.0	2.4	62.0	
-113.0	-1965.0	-17.0	2.4	62.0	
-118.0	-1980.0	-17.0	2.4	62.0	
-123.0	-1995.0	-17.0	2.4	62.0	
-128.0	-2010.0	-17.0	2.4	62.0	
-133.0	-2025.0	-17.0	2.4	62.0	
-138.0	-2040.0	-17.0	2.4	62.0	
-143.0	-2055.0	-17.0	2.4	62.0	
-148.0	-2070.0	-17.0	2.4	62.0	
-153.0	-2085.0	-17.0	2.4	62.0	
-158.0	-2100.0	-17.0	2.4	62.0	
-163.0	-2115.0	-17.0	2.4	62.0	
-168.0	-2130.0	-17.0	2.4	62.0	
-173.0	-2145.0	-17.0	2.4	62.0	
-178.0	-2160.0	-17.0	2.4	62.0	
-183.0	-2175.0	-17.0	2.4	62.0	
-188.0	-2190.0	-17.0	2.4	62.0	
-193.0	-2205.0	-17.0	2.4	62.0	
-198.0	-2220.0	-17.0	2.4	62.0	
-203.0	-2235.0	-17.0	2.4	62.0	
-208.0	-2250.0	-17.0	2.4	62.0	
-213.0	-2265.0	-17.0	2.4	62.0	
-218.0	-2280.0	-17.0	2.4	62.0	
-223.0	-2295.0	-17.0	2.4	62.0	
-228.0	-2310.0	-17.0	2.4	62.0	
-233.0	-2325.0	-17.0	2.4	62.0	
-238.0	-2340.0	-17.0	2.4	62.0	
-243.0	-2355.0	-17.0	2.4	62.0	
-248.0	-2370.0	-17.0	2.4	62.0	
-253.0	-2385.0	-17.0	2.4	62.0	
-258.0	-2400.0	-17.0	2.4	62.0	
-263.0	-2415.0	-17.0	2.4	62.0	
-268.0	-2430.0	-17.0	2.4	62.0	
-273.0	-2445.0	-17.0	2.4	62.0	
-278.0	-2460.0	-17.0	2.4	62.0	
-283.0	-2475.0	-17.0	2.4	62.0	
-288.0	-2490.0	-17.0	2.4	62.0	
-293.0	-2505.0	-17.0	2.4	62.0	
-298.0	-2520.0	-17.0	2.4	62.0	
-303.0	-2535.0	-17.0	2.4	62.0	
-308.0	-2550.0	-17.0	2.4	62.0	
-313.0	-2565.0	-17.0	2.4	62.0	
-318.0	-2580.0	-17.0	2.4	62.0	
-323.0	-2595.0	-17.0	2.4	62.0	</td

STATION ALTITUDE 4456.7, ELEV. 1000
1 AUG. 64
ASCENSION NO. 14

Project AIR Data

6300111 008051NAT15
33.18295 141.036
136.15116 00N 00E

STATION ALTITUDE 6,000. 74 DEGREES
2 AUG. 64
ASCENSION NO. 1

卷之三

DESPERTE GUAROLAYES
1515225 LAT DEG
192.15114 LON DEG

GEOMETRIC PROJECTION	TEMPERATURE AT ALTITUDE	PRESSURE AT MSL FLEET	DISTANCE MILES	DENSITY OF CUBIC METER	SPEED OF WIND (KNOTS)	AERIAL DATA		REFRACTION
						DIR.	SPD. MILES HRS.	
240000	71.0	79.4	79.4	561.5	627.0	754.2	1.000154	1.000154
245000	71.5	77.1	77.1	551.2	625.9	753.8	1.000151	1.000151
250000	72.0	74.8	74.8	544.3	624.7	752.9	1.000149	1.000149
255000	72.5	72.5	72.5	535.8	623.6	754.7	1.000147	1.000147
260000	73.0	70.2	70.2	527.5	621.5	750.2	1.000145	1.000145
265000	73.5	67.9	67.9	519.7	620.6	747.9	1.000143	1.000143
270000	74.0	65.6	65.6	512.3	619.6	742.5	1.000141	1.000141
275000	74.5	63.2	63.2	504.9	618.7	737.1	1.000139	1.000139
280000	75.0	60.8	60.8	497.4	617.1	732.7	1.000137	1.000137
285000	75.5	58.4	58.4	490.2	615.9	727.2	1.000135	1.000135
290000	76.0	56.0	56.0	482.9	614.6	722.8	1.000133	1.000133
295000	76.5	53.6	53.6	475.6	612.4	718.6	1.000131	1.000131
300000	77.0	51.2	51.2	468.2	610.2	713.9	1.000129	1.000129
305000	77.5	48.8	48.8	460.7	607.9	709.2	1.000127	1.000127
310000	78.0	46.4	46.4	453.1	604.7	704.6	1.000125	1.000125
315000	78.5	44.0	44.0	445.4	601.4	700.0	1.000123	1.000123
320000	79.0	41.6	41.6	437.7	598.1	695.3	1.000121	1.000121
325000	79.5	39.2	39.2	430.0	594.8	690.6	1.000119	1.000119
330000	80.0	36.8	36.8	421.3	591.5	685.9	1.000117	1.000117
335000	80.5	34.4	34.4	412.6	588.2	681.2	1.000115	1.000115
340000	81.0	32.0	32.0	403.8	584.9	676.5	1.000113	1.000113
345000	81.5	29.6	29.6	395.0	581.6	671.8	1.000111	1.000111
350000	82.0	27.2	27.2	386.2	578.3	667.1	1.000109	1.000109
355000	82.5	24.8	24.8	377.3	575.0	662.4	1.000107	1.000107
360000	83.0	22.4	22.4	368.4	571.7	657.7	1.000105	1.000105
365000	83.5	20.0	20.0	359.5	568.4	653.0	1.000103	1.000103
370000	84.0	17.6	17.6	350.6	564.1	648.3	1.000101	1.000101
375000	84.5	15.2	15.2	341.7	559.8	643.6	1.000099	1.000099
380000	85.0	12.8	12.8	332.8	555.5	638.9	1.000097	1.000097
385000	85.5	10.4	10.4	323.8	551.2	634.2	1.000095	1.000095
390000	86.0	8.0	8.0	314.8	546.9	629.5	1.000093	1.000093
395000	86.5	5.6	5.6	305.8	542.6	624.8	1.000091	1.000091
400000	87.0	3.2	3.2	296.8	538.3	619.1	1.000089	1.000089
405000	87.5	0.8	0.8	287.7	534.0	614.4	1.000087	1.000087
410000	88.0	-1.4	-1.4	278.7	529.7	609.7	1.000085	1.000085
415000	88.5	-3.8	-3.8	269.6	525.4	605.0	1.000083	1.000083
420000	89.0	-6.2	-6.2	260.5	521.1	599.3	1.000081	1.000081
425000	89.5	-8.6	-8.6	251.4	516.8	594.6	1.000079	1.000079
430000	90.0	-11.0	-11.0	242.3	512.5	589.9	1.000077	1.000077
435000	90.5	-13.4	-13.4	233.2	508.2	585.2	1.000075	1.000075
440000	91.0	-15.8	-15.8	224.1	503.9	579.5	1.000073	1.000073
445000	91.5	-18.2	-18.2	215.0	500.0	574.8	1.000071	1.000071
450000	92.0	-20.6	-20.6	205.8	495.7	569.1	1.000069	1.000069
455000	92.5	-23.0	-23.0	196.6	491.4	563.4	1.000067	1.000067
460000	93.0	-25.4	-25.4	187.4	487.1	557.7	1.000065	1.000065
465000	93.5	-27.8	-27.8	178.2	482.8	552.0	1.000063	1.000063
470000	94.0	-30.2	-30.2	169.0	478.5	546.3	1.000061	1.000061
475000	94.5	-32.6	-32.6	159.8	474.2	540.6	1.000059	1.000059
480000	95.0	-35.0	-35.0	150.6	469.9	534.9	1.000057	1.000057
485000	95.5	-37.4	-37.4	141.4	465.6	529.2	1.000055	1.000055
490000	96.0	-40.8	-40.8	132.2	461.3	523.5	1.000053	1.000053
495000	96.5	-43.2	-43.2	122.9	457.0	517.8	1.000051	1.000051
500000	97.0	-45.6	-45.6	113.7	452.7	512.1	1.000049	1.000049
505000	97.5	-48.0	-48.0	104.4	448.4	506.4	1.000047	1.000047
510000	98.0	-50.4	-50.4	95.2	444.1	500.7	1.000045	1.000045
515000	98.5	-52.8	-52.8	85.9	439.8	495.0	1.000043	1.000043
520000	99.0	-55.2	-55.2	76.6	435.5	489.3	1.000041	1.000041
525000	99.5	-57.6	-57.6	67.3	431.2	483.6	1.000039	1.000039
530000	100.0	-60.0	-60.0	58.0	426.9	477.9	1.000037	1.000037
535000	100.5	-62.4	-62.4	48.7	422.6	472.2	1.000035	1.000035
540000	101.0	-64.8	-64.8	39.4	418.3	466.5	1.000033	1.000033
545000	101.5	-67.2	-67.2	30.1	414.0	460.8	1.000031	1.000031
550000	102.0	-69.6	-69.6	20.8	409.7	455.1	1.000029	1.000029
555000	102.5	-72.0	-72.0	11.5	405.4	449.4	1.000027	1.000027
560000	103.0	-74.4	-74.4	1.2	401.1	443.7	1.000025	1.000025
565000	103.5	-76.8	-76.8	-15.3	396.8	438.0	1.000023	1.000023
570000	104.0	-79.2	-79.2	-31.5	392.5	432.3	1.000021	1.000021
575000	104.5	-81.6	-81.6	-47.7	388.2	426.6	1.000019	1.000019
580000	105.0	-84.0	-84.0	-63.9	383.9	420.9	1.000017	1.000017
585000	105.5	-86.4	-86.4	-79.1	379.6	415.2	1.000015	1.000015
590000	106.0	-88.8	-88.8	-94.3	375.3	409.5	1.000013	1.000013
595000	106.5	-91.2	-91.2	-109.5	371.0	403.8	1.000011	1.000011
600000	107.0	-93.6	-93.6	-124.7	366.7	398.1	1.000009	1.000009
605000	107.5	-96.0	-96.0	-140.0	362.4	392.4	1.000007	1.000007
610000	108.0	-98.4	-98.4	-155.2	358.1	386.7	1.000005	1.000005
615000	108.5	-100.8	-100.8	-170.4	353.8	381.0	1.000003	1.000003
620000	109.0	-103.2	-103.2	-185.6	349.5	375.3	1.000001	1.000001
625000	109.5	-105.6	-105.6	-200.8	345.2	369.6	-	-
630000	110.0	-108.0	-108.0	-216.0	340.9	363.9	-	-
635000	110.5	-110.4	-110.4	-231.2	336.6	358.2	-	-
640000	111.0	-112.8	-112.8	-246.4	332.3	352.5	-	-
645000	111.5	-115.2	-115.2	-261.6	328.0	346.8	-	-
650000	112.0	-117.6	-117.6	-276.8	323.7	341.1	-	-
655000	112.5	-120.0	-120.0	-292.0	319.4	335.4	-	-
660000	113.0	-122.4	-122.4	-307.2	315.1	329.7	-	-
665000	113.5	-124.8	-124.8	-322.4	310.8	324.0	-	-
670000	114.0	-127.2	-127.2	-337.6	306.5	318.3	-	-
675000	114.5	-129.6	-129.6	-352.8	302.2	312.6	-	-
680000	115.0	-132.0	-132.0	-368.0	297.9	306.9	-	-
685000	115.5	-134.4	-134.4	-383.2	293.6	301.2	-	-
690000	116.0	-136.8	-136.8	-398.4	289.3	295.5	-	-
695000	116.5	-139.2	-139.2	-413.6	285.0	289.8	-	-
700000	117.0	-141.6	-141.6	-428.8	280.7	284.1	-	-
705000	117.5	-144.0	-144.0	-444.0	276.4	278.4	-	-
710000	118.0	-146.4	-146.4	-459.2	272.1	272.7	-	-
715000	118.5	-148.8	-148.8	-474.4	267.8	267.0	-	-
720000	119.0	-151.2	-151.2	-489.6	263.5	261.2	-	-
725000	119.5	-153.6	-153.6	-504.8	259.2	258.4	-	-
730000	120.0	-156.0	-156.0	-519.0	254.9	257.6	-	-
735000	120.5	-158.4	-158.4	-534.2	250.6	256.8	-	-
740000	121.0	-160.8	-160.8	-549.4	246.3	256.0	-	-
745000	121.5	-163.2	-163.2	-564.6	242.0	255.2	-	-
750000	122.0	-165.6	-165.6	-579.8	237.7	254.4	-	-
755000	122.5	-168.0	-168.0	-595.0	233.4	253.6	-	-
760000	123.0	-170.4	-170.4	-610.2	229.1	252.8	-	-
765000	123.5	-172.8	-172.8	-625.4	224.8	252.0	-	-
770000	124.0	-175.2	-175.2	-640.6	220.5	251.2	-	-
775000	124.5	-177.6	-177.6	-655.8	216.2	250.4	-	-
780000	125.0	-180.0	-180.0	-671.0	211.9	249.6	-	-
785000	125.5	-182.4	-182.4	-686.2	207.6	248.8	-	-
790000	126.0	-184.8	-184.8	-701.4	203.3	248.0	-	-
795000	126.5	-187.2	-187.2	-716.6	199.0	247.2	-	-
800000	127.0	-189.6	-189.6	-731.8	194.7	246.4	-	-
805000	127.5	-192.0	-192.0	-747.0	190.4	245.6	-	-
810000	128.0	-194.4	-194.4	-762.2	186.1	244.8	-	-
815000	128.5	-196.8	-196.8	-777.4	181.8	244.0	-	-
820000	129.0	-199.2	-199.2	-792.6	177.5	243.2	-	-
825000	129.5	-201.6	-201.6	-807.8	173.2	242.4	-	-
830000	130.0	-204.0	-204.0	-823.0	168.9	241.6	-	-
835000	130.5	-206.4	-206.4	-838.2	164.6	240.8	-	-
840000	131.0	-208.8	-208.8	-853.4	160.3	239.0	-	-
845000	131.5	-211.2	-211.2	-868.6	156.0	238.2	-	-
850000	132.0	-213.6	-213.6	-883.8	151.7	237.4	-	-
855000	132.5	-216.0	-216.0	-899.0	147.4	236.6	-	-
860000	133.0	-218.4	-218.4	-914.2	143.1	235.8	-	-
865000	133.5	-220.8	-220.8	-929.4	138.8	235.0	-	-
870000								

INTRODUCTION 333

STATION ALTITUDE 6156.74 FEET ASL
3 AUG. 96
ASCENSION NO. 12

MANDATORY LEVELS
21600113312
RITA
0720 MDT

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

TABLE 9

PRESSURE MILLIBARS	GEOPOTENTIAL FLAT	TEMPERATURE		REL.HUM. PERCENT	WIND DATA	
		DEGREES	CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
650.0	5073.5	26.0	13.5	66.	55.0	1.5
800.0	5785.5	17.7	10.7	63.	92.1	.5
750.0	5591.1	15.1	7.7	61.	552.9	6.3
700.0	10532.2	11.6	5.4	55.	559.8	13.3
650.0	14525.5	8.2	1.7	63.	13.4	12.9
600.0	14681.1	5.1	-2.9	54.	35.7	11.7
550.0	16277.7	-1.1	-13.0	50.	44.9	14.3
500.0	19451.1	-6.4	-9.6	76.	10.0	7.6
450.0	22131.1	-11.6	-13.6	81.	359.8	9.0
400.0	25972.1	-16.5	-20.0	74.	353.3	11.5
350.0	28423.1	-23.1	-25.7	59.	328.9	11.2
300.0	31962.7	-31.0	-40.8	37.	281.0	10.7
250.0	36107.1	-42.5				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

0726 MDT
0000Z 10 NOV 68
ASIAN SEAS

GEODETIC COORDINATES
23.1235 LAT 06°
-06.9907 LONG 06°

PROBLEMS OF CONTEMPORARY
CULTURE

PULLMAN
PERFECT

STATION ALTITUDE 4027.77 FEET MSL
1 AUG. 64 0720 MDL
ASCENSION NO. 1

UPPER AIR DATA
110344Z01
SALT SPRING
TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE ATM DEGREES CENTIGRADE	REL.HUM. PERCENT	SOUND KNOTS METER KILOMETER	SPEED OF WIND DEGREES (DEG/SEC)	DIRECTION DEGREES (DEG/SEC)	SPEED KNOTS	INDEX OF REFRACTION	REFRACTION
4027.7	1000.0	15.0	94.0	1065.0	667.5	1065.0	0.0	1.000326	0.0
4582.0	965.0	15.5	79.7	125.1	668.2	40.4	1.2	1.000306	
5000.0	955.0	19.1	14.0	1206.3	665.5	49.4	2.4	1.000296	
5500.0	935.0	18.4	12.4	76.7	991.7	49.4	1.000292		
6000.0	921.2	17.7	13.1	74.4	666.8	34.0	3.4	1.000285	
6500.0	906.7	17.1	12.4	74.4	961.8	665.9	4.0	1.000279	
7000.0	792.5	13.7	11.4	70.7	946.4	665.6	342.8	1.5	1.000274
7293.0	779.5	16.7	9.9	66.0	325.2	665.2	344.5	1.8	1.000262
7500.0	754.8	15.4	8.8	63.7	914.9	664.8	7.5	1.000255	
7500.0	751.2	15.1	7.8	57.5	890.9	664.4	10.7	1.000246	
7826.0	727.9	15.1	7.3	59.8	884.5	663.6	9.0	1.000244	
7826.0	714.6	14.3	7.0	61.4	872.7	662.2	6.6	1.000241	
11900.0	711.8	13.7	6.5	63.0	951.1	661.1	2.8	1.000237	
12500.0	699.1	12.2	6.1	65.6	848.9	659.9	2.2	1.000233	
11020.0	686.5	11.2	6.2	61.3	937.2	658.6	2.0	1.000225	
11520.0	674.2	10.2	5.2	61.7	825.0	657.2	3.4	1.000220	
12000.0	651.4	9.2	4.2	61.0	813.0	656.3	4.0	1.000215	
12500.0	649.7	8.7	4.2	61.4	801.2	654.3	6.2	1.000211	
12500.0	637.9	7.5	4.2	61.4	739.5	653.6	10.2	1.000206	
12500.0	625.3	6.5	4.2	61.0	778.1	652.4	19.0	1.000202	
12500.0	614.6	5.1	4.9	65.5	757.0	651.0	28.1	1.000197	
12500.0	603.4	4.2	4.1	72.0	756.2	649.5	35.6	1.000192	
12500.0	592.3	3.9	3.9	65.1	745.2	648.3	42.0	1.000189	
12500.0	581.2	3.2	3.2	62.0	736.1	647.0	47.0	1.000185	
12500.0	570.4	2.4	2.4	62.7	652.4	645.9	49.5	1.000183	
12500.0	559.7	1.4	1.4	65.5	722.9	645.9	51.1	1.000178	
12500.0	548.1	0.9	0.9	62.5	711.6	644.3	51.1	1.000176	
12500.0	536.7	0.7	0.7	62.4	700.9	643.5	53.7	1.000175	
12500.0	525.7	-1.9	-1.9	63.7	692.3	642.3	55.7	1.000171	
12500.0	514.2	-1.0	-1.0	62.0	667.0	647.0	67.0	1.000167	
12500.0	503.4	-2.2	-2.2	64.6	680.0	641.1	57.1	1.000163	
12500.0	492.6	-2.4	-2.4	65.5	720.1	659.5	51.1	1.000162	
12500.0	481.8	-2.7	-2.7	62.5	653.7	617.3	35.8	1.000158	
12500.0	471.0	-2.4	-2.4	64.6	649.1	627.6	43.0	1.000155	
12500.0	460.2	-2.7	-2.7	61.7	659.7	670.1	13.0	1.000152	
12500.0	449.4	-2.0	-2.0	65.7	652.4	634.5	6.0	1.000152	
12500.0	438.6	-1.8	-1.8	65.5	620.1	618.5	51.0	1.000151	
12500.0	427.8	-1.5	-1.5	62.5	670.1	657.3	10.7	1.000151	
12500.0	417.0	-1.2	-1.2	64.6	649.1	623.1	750.1	1.000150	
12500.0	406.2	-1.0	-1.0	61.7	659.7	611.7	347.0	1.000147	
12500.0	395.4	-0.5	-0.5	62.2	650.2	595.2	12.5	1.000147	
12500.0	384.6	-1.5	-1.5	61.5	651.5	604.2	6.0	1.000146	
12500.0	373.8	-1.2	-1.2	64.7	670.1	657.7	750.1	1.000146	
12500.0	363.0	-0.8	-0.8	64.6	649.1	623.1	347.0	1.000146	
12500.0	352.2	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	341.4	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	330.6	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	319.8	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	309.0	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	298.2	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	287.4	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	276.6	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	265.8	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	255.0	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	244.2	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	233.4	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	222.6	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	211.8	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	201.0	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	190.2	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	179.4	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	168.6	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	157.8	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	147.0	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	136.2	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	125.4	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	114.6	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	103.8	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	93.0	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	82.2	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	71.4	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	60.6	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	49.8	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	39.0	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	28.2	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	17.4	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	6.6	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	-3.8	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	-13.0	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-23.8	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	-33.6	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	-43.4	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	-53.2	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-63.0	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	-72.8	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	-82.6	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	-92.4	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-102.2	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	-112.0	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	-121.8	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	-131.6	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-141.4	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	-151.2	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	-161.0	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	-170.8	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-180.6	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	-190.4	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	-200.2	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	-210.0	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-219.8	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	-229.6	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	-239.4	-0.2	-0.2	62.2	650.2	595.2	12.5	1.000146	
12500.0	-249.2	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-259.0	0.4	0.4	64.6	649.1	623.1	347.0	1.000146	
12500.0	-268.8	0.7	0.7	61.7	659.7	611.7	12.5	1.000146	
12500.0	-278.6	0.4	0.4	62.2	650.2	595.2	12.5	1.000146	
12500.0	-288.4	0.1	0.1	64.7	670.1	657.7	750.1	1.000146	
12500.0	-298.2	-0.2	-0.2	64.6	649.1	623.1	347.0	1.000146	
12500.0	-308.0	-0.5	-0.5	61.7	659.7	611.7	12.5	1.000146	
12500.0	-317.8	-0.2							

STATION ALTITUDE 10,700 FEET
24 AUG. 1962 0720 MET
ASCENSION ISL.

210364Z0501
SALT SOLIN
TABLE 11 Cont'd

GEOMETRIC COORDINATES
71°12'35" LAT 06°
156°15'00" LON 016°

GEOMETRIC ALTITUDE MILLIBARS	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY CUBIC METERS	SPEED OF SOUND KNOTS	DIRECTION DEGREE(S) TRUE	WIND SPEED KNOTS	INCLINE DATA OF REFRACTION
617.5	717.5	75.4	561.3	627.3	5.5	12.5	1.000114	
439.7	515.7	75.7	520.3	526.1	5.3	11.3	1.000131	
401.3	495.3	76.0	543.5	526.9	5.2	11.5	1.000126	
373.2	467.2	76.3	554.8	523.5	5.1	11.4	1.000126	
345.9	439.9	76.5	552.5	522.1	5.0	11.0	1.000124	
318.6	412.6	75.9	519.3	520.7	5.0	11.0	1.000121	
277.8	372.8	75.2	512.3	515.7	4.9	11.6	1.000119	
375.0	420.2	75.5	517.3	619.5	4.8	12.6	1.000119	
352.4	401.2	75.5	501.7	618.3	4.8	12.9	1.000116	
325.8	372.8	75.8	492.5	616.8	4.7	12.2	1.000114	
308.2	344.2	76.1	455.4	515.6	4.6	12.5	1.000114	
280.6	315.6	76.4	421.1	514.5	4.5	12.5	1.000114	
253.0	286.0	76.6	401.9	513.9	4.5	12.8	1.000116	
225.4	256.4	76.9	372.9	513.7	4.5	12.8	1.000116	
197.8	226.8	77.2	343.7	513.7	4.5	12.8	1.000116	
170.2	197.2	77.5	314.5	513.7	4.5	12.8	1.000116	
142.6	167.6	77.8	285.3	513.7	4.5	12.8	1.000116	
115.0	137.0	78.1	256.1	513.7	4.5	12.8	1.000116	
87.4	107.4	78.4	226.9	513.7	4.5	12.8	1.000116	
60.8	77.8	78.7	197.7	513.7	4.5	12.8	1.000116	
33.2	47.2	79.0	168.5	513.7	4.5	12.8	1.000116	
5.6	17.0	79.3	139.3	513.7	4.5	12.8	1.000116	
32.0	42.4	79.6	169.1	507.3	4.4	12.8	1.000116	
64.4	52.8	79.9	139.9	532.3	4.3	12.8	1.000116	
96.8	63.2	80.2	140.7	424.0	4.2	12.8	1.000116	
129.2	73.6	80.5	141.5	454.3	4.1	12.8	1.000116	
161.6	84.0	80.8	142.3	446.8	4.0	12.8	1.000116	
194.0	94.4	81.1	143.1	439.7	3.9	12.8	1.000116	
226.4	104.8	81.4	143.9	432.2	3.8	12.8	1.000116	
258.8	115.2	81.7	144.7	424.0	3.7	12.8	1.000116	
291.2	125.6	82.0	145.5	416.3	3.6	12.8	1.000116	
323.6	136.0	82.3	146.3	408.6	3.5	12.8	1.000116	
356.0	146.4	82.6	147.1	401.0	3.4	12.8	1.000116	
388.4	156.8	82.9	147.9	393.4	3.3	12.8	1.000116	
420.8	167.2	83.2	148.7	385.7	3.2	12.8	1.000116	
453.2	177.6	83.5	149.5	378.0	3.1	12.8	1.000116	
485.6	188.0	83.8	150.3	370.3	3.0	12.8	1.000116	

REFRACTION CORRECTION RELATIVE HUMIDITY VALUE USED IN THE INCLINE DATA

STATION ALTITUDE 4000 FT RELT MSL
3 AUG. 66 0720 MDT
ASCENSION NO. 1

WEATHER LEVELS
2150660001
SALT SPRING

GEODETIC COORDINATES
33°12'35" LAT DEG
106°35'07" LON DEG

TABLE 12

PRESSURE OR ALTITUDE MILLIBARS	ELEV. FT FT	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE		REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN) KNOTS	
		D	G		S	W
950.0	5024.	19.0	16.5	75.	40.4	2.4
900.0	5732.	16.3	12.1	74.	36.2	1.5
850.0	5527.	15.1	7.7	57.	19.1	9.2
750.0	13655.	12.6	5.2	6.6	2.1	14.0
650.0	12432.	8.3	1.3	61.	5.1	15.0
600.0	14637.	3.5	-1.4	70.	37.6	11.4
550.0	15029.	-0.8	-7.0	63.	53.4	15.3
500.0	15614.	-6.0	-7.7	98.	24.3	8.8
450.0	22369.	-11.1	-11.9	93.	34.3	12.3
400.0	25042.	-16.3	-19.8	74.	10.1	11.3
250.0	23294.	-21.4	-27.4	69.	328.7	12.6
300.0	31935.	-31.7	-39.4	46.	276.7	11.5
250.0	36074.	-42.2				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION NUMBER 61157
ACCOMPLISHMENT 9000
0900 MDT

LAURENTIA

1960-1964 1965-1969 1970-1974 1975-1979 1980-1984 1985-1989 1990-1994 1995-1999 2000-2004 2005-2009 2010-2014 2015-2019

6F COORDINATES
33° 57' 43.5" LAT DEC
106° 15' 29.4" LONG DEC

TABLE 13

TABLE 14

TABLE 14 Cont'd

STATION NUMBER 4112-7, 1-11
AUG. 24 0900 MDT
ASSISTANT NO.

STATION NUMBER
21542235
104 SITE
0900 MDT

STATION COORDINATES
136.07436 LAT DEG
136.15294 LONG DEG

TABLE 15

WILLIAMS MILLIMETERS	DEGREES F	TEMPERATURE AIR MILLIMETERS HIGHLFS	PERCENT WIND CHARGE	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
210.0	57.91	20.0	14.1	49.	15.0
210.0	56.85	17.0	11.2	55.	1.0
210.0	56.12	15.7	9.6	56.	12.7
210.0	13523	11.9	5.5	55.	14.5
210.0	12547	7.8	2.7	75.	15.4
210.0	14731	7.4	-1.2	70.	21.4
210.0	17004	-1.0	-5.5	71.	9.1
210.0	15455	-5.3	-3.5	78.	2.5
210.0	26150	-12.0	-11.5	99.	0.0
210.0	25115	-14.4	-10.1	56.	35.0
210.0	25494	-22.2	-8.5	74.	13.6
210.0	35070	-35.0	-41.5	31.	288.0
210.0	35242	-40.1			

STATION ALTITUDE 1346.74 FEET MSL
2 AUG. 1965 0900 MDT
ASCENSION NO. 16

SIGNIFICANT LEVEL DATA
215021Z013
R114
TABLE 16

GEODETIC COORDINATES
33°16'29" LAT DEG
106.15114 LONG DEG

WILDERNESS	GEODETIC ALTITUDE MSL, FEET	TEMPERATURE 4TH DEGREE DEGREES, CENTIGRADE	REL. HUM. PERCENT
477.7	414.7	22.5	77.0
478.9	429.5	22.4	75.0
479.0	432.9	19.6	70.0
479.2	437.5	18.3	67.0
479.3	437.4	17.9	66.0
479.4	437.4	16.9	65.0
479.5	437.4	17.4	65.0
479.6	437.2	17.5	66.0
479.7	437.2	17.5	77.0
479.8	437.2	2.7	73.0
479.9	437.2	-1.2	70.0
480.0	437.2	-1.2	70.0
480.1	437.2	-1.2	70.0
480.2	437.2	-1.2	70.0
480.3	437.2	-1.2	70.0
480.4	437.2	-1.2	70.0
480.5	437.2	-1.2	70.0
480.6	437.2	-1.2	70.0
480.7	437.2	-1.2	70.0
480.8	437.2	-1.2	70.0
480.9	437.2	-1.2	70.0
481.0	437.2	-1.2	70.0
481.1	437.2	-1.2	70.0
481.2	437.2	-1.2	70.0
481.3	437.2	-1.2	70.0
481.4	437.2	-1.2	70.0
481.5	437.2	-1.2	70.0
481.6	437.2	-1.2	70.0
481.7	437.2	-1.2	70.0
481.8	437.2	-1.2	70.0
481.9	437.2	-1.2	70.0
482.0	437.2	-1.2	70.0
482.1	437.2	-1.2	70.0
482.2	437.2	-1.2	70.0
482.3	437.2	-1.2	70.0
482.4	437.2	-1.2	70.0
482.5	437.2	-1.2	70.0
482.6	437.2	-1.2	70.0
482.7	437.2	-1.2	70.0
482.8	437.2	-1.2	70.0
482.9	437.2	-1.2	70.0
483.0	437.2	-1.2	70.0
483.1	437.2	-1.2	70.0
483.2	437.2	-1.2	70.0
483.3	437.2	-1.2	70.0
483.4	437.2	-1.2	70.0
483.5	437.2	-1.2	70.0
483.6	437.2	-1.2	70.0
483.7	437.2	-1.2	70.0
483.8	437.2	-1.2	70.0
483.9	437.2	-1.2	70.0
484.0	437.2	-1.2	70.0
484.1	437.2	-1.2	70.0
484.2	437.2	-1.2	70.0
484.3	437.2	-1.2	70.0
484.4	437.2	-1.2	70.0
484.5	437.2	-1.2	70.0
484.6	437.2	-1.2	70.0
484.7	437.2	-1.2	70.0
484.8	437.2	-1.2	70.0
484.9	437.2	-1.2	70.0
485.0	437.2	-1.2	70.0
485.1	437.2	-1.2	70.0
485.2	437.2	-1.2	70.0
485.3	437.2	-1.2	70.0
485.4	437.2	-1.2	70.0
485.5	437.2	-1.2	70.0
485.6	437.2	-1.2	70.0
485.7	437.2	-1.2	70.0
485.8	437.2	-1.2	70.0
485.9	437.2	-1.2	70.0
486.0	437.2	-1.2	70.0
486.1	437.2	-1.2	70.0
486.2	437.2	-1.2	70.0
486.3	437.2	-1.2	70.0
486.4	437.2	-1.2	70.0
486.5	437.2	-1.2	70.0
486.6	437.2	-1.2	70.0
486.7	437.2	-1.2	70.0
486.8	437.2	-1.2	70.0
486.9	437.2	-1.2	70.0
487.0	437.2	-1.2	70.0
487.1	437.2	-1.2	70.0
487.2	437.2	-1.2	70.0
487.3	437.2	-1.2	70.0
487.4	437.2	-1.2	70.0
487.5	437.2	-1.2	70.0
487.6	437.2	-1.2	70.0
487.7	437.2	-1.2	70.0
487.8	437.2	-1.2	70.0
487.9	437.2	-1.2	70.0
488.0	437.2	-1.2	70.0
488.1	437.2	-1.2	70.0
488.2	437.2	-1.2	70.0
488.3	437.2	-1.2	70.0
488.4	437.2	-1.2	70.0
488.5	437.2	-1.2	70.0
488.6	437.2	-1.2	70.0
488.7	437.2	-1.2	70.0
488.8	437.2	-1.2	70.0
488.9	437.2	-1.2	70.0
489.0	437.2	-1.2	70.0
489.1	437.2	-1.2	70.0
489.2	437.2	-1.2	70.0
489.3	437.2	-1.2	70.0
489.4	437.2	-1.2	70.0
489.5	437.2	-1.2	70.0
489.6	437.2	-1.2	70.0
489.7	437.2	-1.2	70.0
489.8	437.2	-1.2	70.0
489.9	437.2	-1.2	70.0
490.0	437.2	-1.2	70.0
490.1	437.2	-1.2	70.0
490.2	437.2	-1.2	70.0
490.3	437.2	-1.2	70.0
490.4	437.2	-1.2	70.0
490.5	437.2	-1.2	70.0
490.6	437.2	-1.2	70.0
490.7	437.2	-1.2	70.0
490.8	437.2	-1.2	70.0
490.9	437.2	-1.2	70.0
491.0	437.2	-1.2	70.0
491.1	437.2	-1.2	70.0
491.2	437.2	-1.2	70.0
491.3	437.2	-1.2	70.0
491.4	437.2	-1.2	70.0
491.5	437.2	-1.2	70.0
491.6	437.2	-1.2	70.0
491.7	437.2	-1.2	70.0
491.8	437.2	-1.2	70.0
491.9	437.2	-1.2	70.0
492.0	437.2	-1.2	70.0
492.1	437.2	-1.2	70.0
492.2	437.2	-1.2	70.0
492.3	437.2	-1.2	70.0
492.4	437.2	-1.2	70.0
492.5	437.2	-1.2	70.0
492.6	437.2	-1.2	70.0
492.7	437.2	-1.2	70.0
492.8	437.2	-1.2	70.0
492.9	437.2	-1.2	70.0
493.0	437.2	-1.2	70.0
493.1	437.2	-1.2	70.0
493.2	437.2	-1.2	70.0
493.3	437.2	-1.2	70.0
493.4	437.2	-1.2	70.0
493.5	437.2	-1.2	70.0
493.6	437.2	-1.2	70.0
493.7	437.2	-1.2	70.0
493.8	437.2	-1.2	70.0
493.9	437.2	-1.2	70.0
494.0	437.2	-1.2	70.0
494.1	437.2	-1.2	70.0
494.2	437.2	-1.2	70.0
494.3	437.2	-1.2	70.0
494.4	437.2	-1.2	70.0
494.5	437.2	-1.2	70.0
494.6	437.2	-1.2	70.0
494.7	437.2	-1.2	70.0
494.8	437.2	-1.2	70.0
494.9	437.2	-1.2	70.0
495.0	437.2	-1.2	70.0
495.1	437.2	-1.2	70.0
495.2	437.2	-1.2	70.0
495.3	437.2	-1.2	70.0
495.4	437.2	-1.2	70.0
495.5	437.2	-1.2	70.0
495.6	437.2	-1.2	70.0
495.7	437.2	-1.2	70.0
495.8	437.2	-1.2	70.0
495.9	437.2	-1.2	70.0
496.0	437.2	-1.2	70.0
496.1	437.2	-1.2	70.0
496.2	437.2	-1.2	70.0
496.3	437.2	-1.2	70.0
496.4	437.2	-1.2	70.0
496.5	437.2	-1.2	70.0
496.6	437.2	-1.2	70.0
496.7	437.2	-1.2	70.0
496.8	437.2	-1.2	70.0
496.9	437.2	-1.2	70.0
497.0	437.2	-1.2	70.0
497.1	437.2	-1.2	70.0
497.2	437.2	-1.2	70.0
497.3	437.2	-1.2	70.0
497.4	437.2	-1.2	70.0
497.5	437.2	-1.2	70.0
497.6	437.2	-1.2	70.0
497.7	437.2	-1.2	70.0
497.8	437.2	-1.2	70.0
497.9	437.2	-1.2	70.0
498.0	437.2	-1.2	70.0
498.1	437.2	-1.2	70.0
498.2	437.2	-1.2	70.0
498.3	437.2	-1.2	70.0
498.4	437.2	-1.2	70.0
498.5	437.2	-1.2	70.0
498.6	437.2	-1.2	70.0
498.7	437.2	-1.2	70.0
498.8	437.2	-1.2	70.0
498.9	437.2	-1.2	70.0
499.0	437.2	-1.2	70.0
499.1	437.2	-1.2	70.0
499.2	437.2	-1.2	70.0
499.3	437.2	-1.2	70.0
499.4	437.2	-1.2	70.0
499.5	437.2	-1.2	70.0
499.6	437.2	-1.2	70.0
499.7	437.2	-1.2	70.0
499.8	437.2	-1.2	70.0
499.9	437.2	-1.2	70.0
500.0	437.2	-1.2	70.0

STATION ALTITUDE 11500 FT. 10000 FT.
3 AUG. 24 1950 1950 MET.

卷之三

100111 COORDINATES

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GEOMETRIC PRESSURE ALTITUDE MSL FEET	TEMPERATURE AT DEPLOYMENT MILLIGRAMS DEGREES CELSIUS	SECTION 4.		SOUND KNOTS	SPEED OF WIND KNOTS	DIRECTION DEGREES	SPEED KNOTS	INDEX OF REFRACTION		
		PERCENT CUBIC	PERCENT GASEOUS							
4186.7	87.7	22.5	77.3	1224.6	672.9	107.0	1.000520			
4520.3	85.2	21.7	76.7	1217.9	571.5	107.6	1.000511			
5000.0	85.2	20.5	71.1	1204.6	569.1	107.5	1.000508			
5500.0	85.2	19.4	67.4	991.4	598.5	105.2	1.000503			
5900.0	85.2	18.6	65.1	975.8	577.2	102.7	1.000502			
6300.0	85.2	18.0	62.1	965.4	567.1	101.9	1.000507			
6700.0	85.2	17.2	67.3	967.5	655.9	72.7	1.000277			
7100.0	85.2	16.9	66.7	967.5	655.9	72.7	1.000277			
7500.0	85.2	16.5	63.7	934.8	664.4	52.4	1.000263			
8000.0	85.2	16.0	66.3	922.3	663.0	41.3	1.000257			
8500.0	85.2	16.5	71.4	927.2	662.5	15.7	1.000251			
9000.0	85.2	16.2	6.9	61.7	892.2	662.0	14.7	1.000245		
9500.0	85.2	15.7	6.2	60.5	878.0	651.4	14.0	1.000239		
10000.0	85.2	15.6	5.6	62.7	865.7	650.1	15.3	1.000235		
10500.0	85.2	15.5	5.1	64.9	852.5	650.1	15.9	1.000231		
11000.0	85.2	15.5	4.4	65.9	861.1	657.6	16.9	1.000227		
11500.0	85.2	15.2	3.7	66.8	828.9	556.4	20.8	1.000222		
12000.0	85.2	15.2	2.9	67.8	816.7	555.2	21.2	1.000216		
12500.0	85.1	14.4	7.7	2.3	80.4	805.1	653.8	20.4	1.000214	
13000.0	85.0	13.5	7.3	1.7	73.5	794.5	552.3	17.0	1.000211	
13500.0	85.0	12.9	6.9	1.0	75.6	783.3	650.8	19.8	1.000207	
14000.0	85.0	12.7	7.8	1.0	74.1	771.8	649.5	18.8	1.000203	
14500.0	85.0	12.6	7.6	1.4	70.9	760.2	568.4	16.4	1.000199	
15000.0	85.0	12.6	7.9	1.4	74.0	749.2	667.0	16.4	1.001193	
15500.0	85.0	12.6	7.1	1.2	81.2	738.4	645.5	31.2	1.000172	
16000.0	85.0	12.6	7.2	1.2	87.5	727.9	644.1	33.0	1.000188	
16500.0	85.0	12.6	7.1	1.2	82.4	716.5	643.1	36.5	1.000183	
17000.0	85.0	12.6	7.2	1.2	63.4	704.6	642.3	36.8	1.000176	
17500.0	85.0	12.6	7.1	1.2	74.2	693.7	641.5	31.2	1.000156	
18000.0	85.0	12.6	7.2	1.2	65.7	682.4	640.3	29.6	1.000167	
18500.0	85.0	12.6	7.1	1.2	69.3	672.0	639.0	15.7	1.000157	
19000.0	85.0	12.6	7.2	1.2	77.2	653.7	637.8	6.5	1.000154	
19500.0	85.0	12.6	7.1	1.2	65.8	637.8	637.8	0.0	1.000150	
20000.0	85.0	12.6	7.2	1.2	72.2	552.2	636.2	2.2	1.000147	
20500.0	85.0	12.6	7.1	1.2	61.3	85.0	635.0	1.1	1.000144	
21000.0	85.0	12.6	7.2	1.2	78.9	65.7	632.1	3.8	1.000142	
21500.0	85.0	12.6	7.1	1.2	66.0	62.0	632.6	2.6	1.000141	
22000.0	85.0	12.6	7.2	1.2	74.5	51.1	631.3	0.7	1.000140	
22500.0	85.0	12.6	7.1	1.2	63.5	60.0	630.7	2.2	1.000139	
23000.0	85.0	12.6	7.2	1.2	71.2	51.2	629.3	2.2	1.000138	
23500.0	85.0	12.6	7.1	1.2	62.3	50.0	629.1	0.7	1.000137	
24000.0	85.0	12.6	7.2	1.2	70.0	49.0	629.0	2.2	1.000136	
24500.0	85.0	12.6	7.1	1.2	61.3	48.0	629.0	0.7	1.000135	
25000.0	85.0	12.6	7.2	1.2	69.0	47.0	629.0	2.2	1.000134	
25500.0	85.0	12.6	7.1	1.2	60.7	46.0	629.0	0.7	1.000133	
26000.0	85.0	12.6	7.2	1.2	68.4	45.0	629.0	2.2	1.000132	
26500.0	85.0	12.6	7.1	1.2	62.1	44.0	629.0	0.7	1.000131	
27000.0	85.0	12.6	7.2	1.2	69.8	43.0	629.0	2.2	1.000130	
27500.0	85.0	12.6	7.1	1.2	63.5	42.0	629.0	0.7	1.000129	
28000.0	85.0	12.6	7.2	1.2	71.2	41.0	629.0	2.2	1.000128	
28500.0	85.0	12.6	7.1	1.2	64.9	40.0	629.0	0.7	1.000127	
29000.0	85.0	12.6	7.2	1.2	72.6	39.0	629.0	2.2	1.000126	
29500.0	85.0	12.6	7.1	1.2	66.6	38.0	629.0	0.7	1.000125	
30000.0	85.0	12.6	7.2	1.2	74.3	37.0	629.0	2.2	1.000124	
30500.0	85.0	12.6	7.1	1.2	68.0	36.0	629.0	0.7	1.000123	
31000.0	85.0	12.6	7.2	1.2	75.7	35.0	629.0	2.2	1.000122	
31500.0	85.0	12.6	7.1	1.2	70.4	34.0	629.0	0.7	1.000121	
32000.0	85.0	12.6	7.2	1.2	78.1	33.0	629.0	2.2	1.000120	
32500.0	85.0	12.6	7.1	1.2	71.8	32.0	629.0	0.7	1.000119	
33000.0	85.0	12.6	7.2	1.2	79.5	31.0	629.0	2.2	1.000118	
33500.0	85.0	12.6	7.1	1.2	72.2	30.0	629.0	0.7	1.000117	
34000.0	85.0	12.6	7.2	1.2	77.9	29.0	629.0	2.2	1.000116	
34500.0	85.0	12.6	7.1	1.2	71.6	28.0	629.0	0.7	1.000115	
35000.0	85.0	12.6	7.2	1.2	79.3	27.0	629.0	2.2	1.000114	
35500.0	85.0	12.6	7.1	1.2	72.0	26.0	629.0	0.7	1.000113	
36000.0	85.0	12.6	7.2	1.2	77.7	25.0	629.0	2.2	1.000112	
36500.0	85.0	12.6	7.1	1.2	71.4	24.0	629.0	0.7	1.000111	
37000.0	85.0	12.6	7.2	1.2	78.1	23.0	629.0	2.2	1.000110	
37500.0	85.0	12.6	7.1	1.2	71.8	22.0	629.0	0.7	1.000109	
38000.0	85.0	12.6	7.2	1.2	78.5	21.0	629.0	2.2	1.000108	
38500.0	85.0	12.6	7.1	1.2	72.2	20.0	629.0	0.7	1.000107	
39000.0	85.0	12.6	7.2	1.2	76.9	19.0	629.0	2.2	1.000106	
39500.0	85.0	12.6	7.1	1.2	70.6	18.0	629.0	0.7	1.000105	
40000.0	85.0	12.6	7.2	1.2	77.3	17.0	629.0	2.2	1.000104	
40500.0	85.0	12.6	7.1	1.2	71.0	16.0	629.0	0.7	1.000103	
41000.0	85.0	12.6	7.2	1.2	77.7	15.0	629.0	2.2	1.000102	
41500.0	85.0	12.6	7.1	1.2	70.4	14.0	629.0	0.7	1.000101	
42000.0	85.0	12.6	7.2	1.2	78.1	13.0	629.0	2.2	1.000100	
42500.0	85.0	12.6	7.1	1.2	71.8	12.0	629.0	0.7	1.000099	
43000.0	85.0	12.6	7.2	1.2	77.5	11.0	629.0	2.2	1.000098	
43500.0	85.0	12.6	7.1	1.2	71.2	10.0	629.0	0.7	1.000097	
44000.0	85.0	12.6	7.2	1.2	78.2	9.0	629.0	2.2	1.000096	
44500.0	85.0	12.6	7.1	1.2	71.9	8.0	629.0	0.7	1.000095	
45000.0	85.0	12.6	7.2	1.2	77.6	7.0	629.0	2.2	1.000094	
45500.0	85.0	12.6	7.1	1.2	71.3	6.0	629.0	0.7	1.000093	
46000.0	85.0	12.6	7.2	1.2	78.3	5.0	629.0	2.2	1.000092	
46500.0	85.0	12.6	7.1	1.2	72.0	4.0	629.0	0.7	1.000091	
47000.0	85.0	12.6	7.2	1.2	78.0	3.0	629.0	2.2	1.000090	
47500.0	85.0	12.6	7.1	1.2	71.7	2.0	629.0	0.7	1.000089	
48000.0	85.0	12.6	7.2	1.2	77.4	1.0	629.0	2.2	1.000088	
48500.0	85.0	12.6	7.1	1.2	71.1	0.0	629.0	0.7	1.000087	
49000.0	85.0	12.6	7.2	1.2	77.1	-1.0	629.0	2.2	1.000086	
49500.0	85.0	12.6	7.1	1.2	70.8	-2.0	629.0	0.7	1.000085	
50000.0	85.0	12.6	7.2	1.2	76.8	-3.0	629.0	2.2	1.000084	

STATION ALTITUDE 4550.74 FEET MSL
3 AUG. 96 0900 MDT
ASCENSION NO. 1

WEATHER AIR DATA
1000110313
SITE
33°18'29" LAT DEG
106°15'14" LON DEG

TABLE 17 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE WILCOXES	TEMPERATURE AIR DEGREE CELSIUS (CENTIGRADE)	DE-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY G/CUBIC METER	SPD OF SOUND KNOTS	WIND DATA DIR/DEG DEGREES (TN)	SPD KNOTS	INDEX OF REFRACTION
24000.0	418.0	-17.1	81.4	592.5	626.8	758.6	9.1	1.000134	
24500.0	432.4	-19.3	72.5	553.2	625.7	757.1	9.8	1.000131	
25000.0	451.5	-21.6	65.7	544.1	624.5	757.3	10.2	1.000127	
25500.0	473.4	-20.5	64.5	535.5	623.5	758.5	10.7	1.000125	
26000.0	495.6	-21.9	67.7	527.1	621.8	757.7	11.0	1.000123	
26500.0	517.7	-19.8	73.5	518.9	620.5	759.5	5.4	1.000121	
27000.0	525.1	-24.5	72.9	510.7	619.3	757.7	9.8	1.000119	
27500.0	525.3	-22.1	72.3	502.6	617.5	757.1	9.2	1.000116	
28000.0	525.2	-23.1	71.8	494.6	616.5	758.0	9.9	1.000114	
28500.0	527.2	-26.5	71.3	486.8	614.5	747.9	8.1	1.000112	
29000.0	525.5	-25.5	70.5	479.0	613.1	732.5	7.2	1.000110	
29500.0	525.8	-25.4	70.2	471.5	611.5	717.2	6.2	1.000108	
30000.0	525.5	-27.4	59.9	463.8	610.2	734.8	6.7	1.000106	
30500.0	525.7	-28.9	37.5	456.3	608.9	297.1	5.2	1.000103	
31000.0	525.0	-26.5	74.1	446.7	627.3	237.8	10.1	1.000101	
31500.0	525.4	-40.3	39.5	445.9	606.2	289.0	12.1	1.000099	
32000.0	525.2	-32.2	45.1	435.2	605.0	287.1	11.2	1.000098	
32500.0	525.4	-33.2	40.4	426.8	603.4	289.4	11.1	1.000097	
33000.0	525.7	-36.5	52.6	419.3	601.7	290.1	12.3	1.000095	
33500.0	525.1	-41.5	55.4	412.6	600.1	286.6	11.6	1.000093	
34000.0	525.2	-37.1	59.7	405.9	598.4	276.8	12.5	1.000091	
34500.0	525.2	-38.7	53.3	399.5	596.5	266.9	13.5	1.000090	
35000.0	525.0	-43.5	18.5**	393.0	594.5	386.5	1.000088	1.000086	
35500.0	525.7	-41.3	21.6**	386.5	593.2	4.6**	1.000085	1.000083	
36000.0	525.6	-41.5	4.6**	380.1	591.5				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION

STATION ALTITUDE 4136.74 FEET MSL
3 AUG. 94 0900 MDT
ASCENSION NO. 1

MANDATORY LEVELS
215021J013
RITA

TABLE 18

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE			REL.HUM. PERCENT	WIND DATA	
		AIR DEPOINT	DEGREES CENTIGRADE	DIRECTION DEGREES(CIN)		SPEED KNOTS	
850.0	5091.	19.6	14.0	70.	328.4	1.5	
800.0	5604.	17.6	11.4	67.	71.2	1.1	
750.0	9605.	16.6	7.6	63.	14.6	8.0	
700.0	10516.	11.6	5.1	55.	17.0	13.9	
650.0	12535.	7.2	2.2	71.	20.1	11.7	
600.0	14680.	2.5	-2.2	71.	26.5	9.5	
550.0	10970.	-2.0	-6.8	70.	36.8	10.1	
500.0	19439.	-6.9	-11.1	72.	9	6.9	
450.0	22115.	-11.5	-12.5	92.	1.1	7.2	
400.0	25053.	-16.5	-22.0	62.	357.3	10.3	
350.0	28300.	-24.1	-27.8	71.	351.0	8.5	
300.0	31929.	-32.0	-39.9	65.	287.2	13.2	
250.0	36058.	-43.0					

** AT LEAST ONE ASSURED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4723.77 FEET MSL
 5 AUG. 66
 ASCENSION NO. 2 0900 MDT

SIGNIFICANT LEVEL DATA
 2150440002
 SALT SPRING

GEODETIC COORDINATES
 33.12355 LAT DEG
 106.15907 LON DEG

TABLE 19

PRESSURE MILLIBARS	GEOGRAPHIC ALTITUDE METERS	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	
			AIR DEP. POINT	DEGREES CENTIGRADE
951.0	6023.4	22.9	15.2	65.0
977.9	4126.2	21.1	15.2	69.0
950.0	5042.1	19.6	15.3	81.0
847.0	5143.3	18.6	15.0	85.0
560.1	5375.0	19.5	13.4	68.0
309.5	6426.6	18.4	11.9	66.0
379.5	7495.0	17.1	9.5	61.0
759.7	9239.9	15.7	9.4	62.0
740.1	9931.0	15.1	9.3	66.0
700.0	10494.7	12.4	5.9	63.0
650.5	12425.9	7.2	1.7	65.0
537.2	13049.3	6.8	1.3	68.0
551.4	15534.9	1.6	-3.9	67.0
566.6	16197.2	0.1	-6.2	73.0
541.3	17389.0	-1.4	-3.6	58.0
524.7	18235.0	-3.4	-7.4	63.0
500.0	19452.9	-5.8	-9.7	74.0
497.8	19565.6	-6.2	-12.7	60.0
486.2	20228.8	-7.3	-9.4	85.0
473.9	20529.3	-9.7	-10.9	86.0
445.4	22493.4	-11.8	-12.3	95.0
430.2	23278.3	-12.4	-16.9	69.0
430.0	25537.2	-15.9	-21.1	66.0
764.4	26079.7	-18.9	-23.5	67.0
345.1	28693.7	-24.7	-28.7	57.0
736.5	29226.5	-26.4	-29.9	72.0
330.1	29753.0	-27.0	-36.2	50.0
117.2	30696.8	-28.3	-39.5	33.0
200.0	32024.1	-31.6	-42.7	50.0
286.2	33034.3	-34.5	-42.6	43.0
269.9	34527.6	-36.1	-46.6	50.0
257.0	35156.9	-42.3		

196.15907 LON 96.12355 LAT 06.13355 DEC

GEORGIA
ALTITUDE
151 FEET
WEIGHT
1000 POUNDS
TEMPERATURE
40° POINT
WILLIAMS BROS. CANNING CO.

INDEX	REFRACTION	KNOTS	REFRACTION	INDEX
WATER	WATER	KNOTS	REFRACTION	WATER
WATER	WATER	KNOTS	REFRACTION	WATER
WATER	WATER	KNOTS	REFRACTION	WATER
WATER	WATER	KNOTS	REFRACTION	WATER

27

卷之三

OPTIC COORDINATES

卷之三

1

INPUT
OF
INSTRUCTION

STATION ALTITUDE 4023.3 FEET
3 AUG. 65
ASCENSION NO. 2
0900 MDT

HOURLY AIR DATA

110460002
SALT SCATM

TABLE 20 Cont'd

STATION ALTITUDE	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	SOUND METER KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
24000.0	418.0	-13.8	-15.6	67.0	560.7	14.6
24500.0	409.7	-14.5	-19.7	65.0	551.7	13.8
25000.0	401.6	-15.7	-20.9	64.2	542.8	12.0
25500.0	393.5	-12.1	-22.1	65.2	534.0	12.1
26000.0	385.4	-15.7	-23.3	65.5	527.4	11.4
26500.0	377.3	-12.6	-24.5	67.3	519.1	10.8
27000.0	370.1	-20.9	-15.3	67.7	510.3	10.1
27500.0	364.5	-22.1	-26.1	69.1	502.5	9.3
28000.0	355.1	-25.2	-27.3	68.5	494.5	8.2
28500.0	347.9	-26.3	-23.2	68.9	486.6	8.3
29000.0	340.7	-25.6	-29.2	70.5	479.1	5.5
29500.0	333.6	-26.7	-31.7	62.2	471.1	5.2
30000.0	326.7	-22.3	-25.5	45.6	462.8	6.2
30500.0	319.8	-23.5	-26.3	36.5	456.4	9.9
31000.0	312.1	-29.1	-29.1	35.9	446.7	11.0
31500.0	306.5	-23.5	-26.8	43.4	439.9	11.3
32000.0	300.1	-21.6	-26.7	49.4	432.0	11.1
32500.0	293.6	-23.5	-40.5	45.8	425.3	10.4
33000.0	287.4	-24.2	-44.3	43.6	419.0	10.4
33500.0	281.2	-35.5	-43.2	45.0	412.1	10.4
34000.0	275.1	-36.6	-43.8	47.4	405.1	10.8
34500.0	269.1	-28.2	-44.6	49.9	398.7	11.2
35000.0	262.2	-29.3	-45.8	75.5**	392.1	12.1
35500.0	257.4	-41.3	-54.6	20.2**	385.6	1.000086
36000.0	251.8	-41.6	-46.5	4.5**	379.2	1.000085

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION NUMBER 400112
5 AUG. 1963
15000' MSL

WEATHER DATA SHEET
15000' MSL
15000' MSL
TABLE 21

GEODETIC COORDINATES
33.12755 LAT DEG
106.35907 LON DEG

WIND DIRECTIONS	WIND SPEED	WIND DATES
DEGREES (TN)	KNOTS	
000	2.8	
015	2.2	
030	6.1	
045	1.2	
060	5.3	
075	1.6	
090	5.5	
105	1.6	
120	5.8	
135	1.6	
150	2.5	
165	1.6	
180	3.3	
195	1.6	
210	5.7	
225	1.6	
240	5.7	
255	1.6	
270	5.7	
285	1.6	
300	5.7	
315	1.6	
330	5.7	
345	1.6	
360	5.7	
375	1.6	
390	5.7	
405	1.6	
420	5.7	
435	1.6	
450	5.7	
465	1.6	
480	5.7	
495	1.6	
510	5.7	
525	1.6	
540	5.7	
555	1.6	
570	5.7	
585	1.6	
600	5.7	
615	1.6	
630	5.7	
645	1.6	
660	5.7	
675	1.6	
690	5.7	
705	1.6	
720	5.7	
735	1.6	
750	5.7	
765	1.6	
780	5.7	
795	1.6	
810	5.7	
825	1.6	
840	5.7	
855	1.6	
870	5.7	
885	1.6	
900	5.7	
915	1.6	
930	5.7	
945	1.6	
960	5.7	
975	1.6	
990	5.7	

•• AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION NUMBER 1112.72 451
2 AUG. 94 1048 MOT
ASCENSION NO. 5

SIGNIFICANT LEVEL DATA
615064005
JULIA SITE

TABLE 22

GEODETIC COORDINATES
33.07436 LAT DEG
156.15294 LON DEG

WILLIAMS MSL FLEET	PRESSURE CONVENTIONAL ALTITUDE	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
579.0	4112.0	25.3	60.0
572.1	4345.0	23.8	57.0
550.0	5362.0	21.4	53.0
521.9	5542.0	19.7	56.0
721.1	4252.0	15.7	60.0
750.0	10528.0	12.8	58.0
655.2	11885.0	9.5	68.0
553.8	15442.0	2.0	65.0
572.6	15726.0	1.5	56.0
557.5	16559.0	0.3	63.0
543.0	17357.0	-1.1	51.0
502.2	19244.0	-6.6	74.0
400.0	19525.0	-5.5	65.0
476.3	20755.0	-7.7	84.0
452.5	22054.0	-9.3	66.0
437.1	22943.0	-10.7	57.0
420.0	25171.0	-14.9	50.0
362.2	27545.0	-21.2	62.0
328.5	29953.0	-26.5	39.0
300.3	32599.0	-31.4	43.0
374.8	34124.0	-36.3	47.0
255.4	34915.0	-36.5	53.0
257.0	36259.0	-41.6	

ASSOCIATION ALTIMONT 1915-1917, 1921-1922
2 AUG. 1924
1612 NO. 1
MACHINERY CO.

CHINESE METAL

1631 1 23

Geodetic coordinates
33° 07' 43" LAT DEG
106° 11' 29" LON DEG

GEOMETRIC PRESSURE ALTITUDE IN FEET	TEMPERATURE AT POINT OF REFERENCE	PRESSURE IN MILLIBARS	TEMPERATURE AT POINT OF REFERENCE CENTIGRADE	RELATION PERCENT		DENSITY Cubic METER	SOUND KNOTS	SPLICE DEGREES(111) KNOTS	INDEX OF REFRACTION	INDEX OF REFRACTION
				10000	10000					
4112.5	67.2	17.0	17.0	49.2	59.2	1017.7	675.6	7.0	1.0003039	1.0003039
4500.0	69.7	21.4	14.7	49.2	51.1	1211.5	673.4	4.4	1.0002976	1.0002976
5000.0	75.0	22.4	16.6	49.2	52.1	998.4	671.9	7.7	1.0002923	1.0002923
5500.0	81.7	23.4	17.1	49.2	53.1	955.4	670.6	2.9	1.0002876	1.0002876
6000.0	82.3	23.4	17.1	49.2	54.1	972.7	668.9	2.1	1.0002876	1.0002876
6500.0	82.6	23.4	17.1	49.2	55.1	958.9	657.7	1.8	1.0002770	1.0002770
7000.0	79.4	17.9	9.8	50.1	50.1	945.2	656.5	2.1	1.0002653	1.0002653
7500.0	73.0	17.4	9.3	50.1	50.3	931.7	655.5	1.6	1.0002559	1.0002559
8000.0	75.6	15.1	8.7	50.1	50.8	918.4	654.3	1.2	1.0002554	1.0002554
8500.0	75.0	15.7	7.6	50.7	50.7	904.6	653.4	0.9	1.0002449	1.0002449
9000.0	73.9	14.7	6.9	50.7	50.7	890.5	652.7	0.6	1.0002444	1.0002444
9500.0	72.6	14.6	6.2	50.7	50.7	876.7	651.9	0.3	1.0002338	1.0002338
10000.0	71.4	13.5	5.5	50.7	50.5	863.0	651.1	0.0	1.0002334	1.0002334
10500.0	72.0	12.5	4.8	50.7	50.7	849.6	650.4	-0.3	1.0002239	1.0002239
11000.0	68.5	11.5	4.3	51.5	51.5	838.3	648.8	-0.6	1.0002236	1.0002236
11500.0	67.5	10.1	3.8	51.5	51.5	827.1	557.1	-1.1	1.0002222	1.0002222
12000.0	65.1	9.6	3.2	51.5	51.5	816.2	655.6	-0.9	1.0002119	1.0002119
12500.0	63.2	9.2	2.6	51.5	51.5	804.2	654.3	-0.6	1.0002115	1.0002115
13000.0	63.9	8.6	2.1	51.5	51.5	792.3	553.1	-0.3	1.0002034	1.0002034
13500.0	62.7	5.6	1.7	51.5	51.5	780.6	551.9	0.7	1.0002034	1.0002034
14000.0	61.5	4.8	1.2	51.5	51.5	759.2	550.7	0.4	1.0001926	1.0001926
14500.0	60.6	4.2	0.8	51.5	51.5	757.9	549.5	0.1	1.0001926	1.0001926
15000.0	59.0	3.6	0.4	51.5	51.5	746.7	548.3	-0.3	1.0001814	1.0001814
15500.0	57.4	2.9	0.1	51.5	51.5	735.5	547.1	-0.4	1.0001814	1.0001814
16000.0	56.0	2.3	-0.2	51.5	51.5	723.6	546.3	-0.5	1.0001691	1.0001691
16500.0	54.7	1.7	-0.6	51.5	51.5	712.1	545.4	-0.1	1.0001691	1.0001691
17000.0	53.5	1.2	-0.9	51.5	51.5	701.4	544.2	0.3	1.0001674	1.0001674
17500.0	52.3	0.6	-1.2	51.5	51.5	690.9	542.9	0.7	1.0001674	1.0001674
18000.0	51.2	0.0	-1.5	51.5	51.5	680.5	541.6	1.2	1.0001656	1.0001656
18500.0	50.2	-0.5	-1.8	51.5	51.5	670.2	540.3	1.7	1.0001638	1.0001638
19000.0	49.3	-0.9	-2.1	51.5	51.5	660.1	539.3	2.2	1.0001624	1.0001624
19500.0	48.5	-1.3	-2.4	51.5	51.5	650.1	538.3	2.7	1.0001617	1.0001617
20000.0	47.7	-1.7	-2.7	51.5	51.5	640.1	537.3	3.2	1.0001617	1.0001617
20500.0	46.9	-2.1	-3.0	51.5	51.5	630.1	536.3	3.7	1.0001600	1.0001600
21000.0	46.2	-2.5	-3.3	51.5	51.5	620.1	535.3	4.2	1.0001583	1.0001583
21500.0	45.5	-2.9	-3.6	51.5	51.5	610.1	534.3	4.7	1.0001566	1.0001566
22000.0	44.9	-3.3	-3.9	51.5	51.5	600.1	533.3	5.2	1.0001549	1.0001549
22500.0	44.3	-3.7	-4.2	51.5	51.5	590.1	532.3	5.7	1.0001532	1.0001532
23000.0	43.7	-4.1	-4.5	51.5	51.5	580.1	531.3	6.2	1.0001515	1.0001515
23500.0	43.2	-4.5	-4.8	51.5	51.5	570.1	530.3	6.7	1.0001498	1.0001498
24000.0	42.7	-4.9	-5.1	51.5	51.5	560.1	529.3	7.2	1.0001481	1.0001481
24500.0	42.2	-5.3	-5.4	51.5	51.5	550.1	528.3	7.7	1.0001464	1.0001464
25000.0	41.8	-5.7	-5.7	51.5	51.5	540.1	527.3	8.2	1.0001447	1.0001447
25500.0	41.4	-6.1	-6.0	51.5	51.5	530.1	526.3	8.7	1.0001430	1.0001430
26000.0	41.0	-6.5	-6.3	51.5	51.5	520.1	525.3	9.2	1.0001413	1.0001413
26500.0	40.6	-6.9	-6.6	51.5	51.5	510.1	524.3	9.7	1.0001396	1.0001396
27000.0	40.2	-7.3	-6.9	51.5	51.5	500.1	523.3	10.2	1.0001379	1.0001379
27500.0	39.8	-7.7	-7.2	51.5	51.5	490.1	522.3	10.7	1.0001362	1.0001362
28000.0	39.4	-8.1	-7.5	51.5	51.5	480.1	521.3	11.2	1.0001345	1.0001345
28500.0	39.0	-8.5	-7.8	51.5	51.5	470.1	520.3	11.7	1.0001328	1.0001328
29000.0	38.6	-8.9	-8.1	51.5	51.5	460.1	519.3	12.2	1.0001311	1.0001311
29500.0	38.2	-9.3	-8.4	51.5	51.5	450.1	518.3	12.7	1.0001294	1.0001294
30000.0	37.8	-9.7	-8.7	51.5	51.5	440.1	517.3	13.2	1.0001277	1.0001277
30500.0	37.4	-10.1	-9.0	51.5	51.5	430.1	516.3	13.7	1.0001260	1.0001260
31000.0	37.0	-10.5	-9.3	51.5	51.5	420.1	515.3	14.2	1.0001243	1.0001243
31500.0	36.6	-10.9	-9.6	51.5	51.5	410.1	514.3	14.7	1.0001226	1.0001226
32000.0	36.2	-11.3	-9.9	51.5	51.5	400.1	513.3	15.2	1.0001209	1.0001209
32500.0	35.8	-11.7	-10.2	51.5	51.5	390.1	512.3	15.7	1.0001192	1.0001192
33000.0	35.4	-12.1	-10.5	51.5	51.5	380.1	511.3	16.2	1.0001175	1.0001175
33500.0	35.0	-12.5	-10.8	51.5	51.5	370.1	510.3	16.7	1.0001158	1.0001158
34000.0	34.6	-12.9	-11.1	51.5	51.5	360.1	509.3	17.2	1.0001141	1.0001141
34500.0	34.2	-13.3	-11.4	51.5	51.5	350.1	508.3	17.7	1.0001124	1.0001124
35000.0	33.8	-13.7	-11.7	51.5	51.5	340.1	507.3	18.2	1.0001107	1.0001107
35500.0	33.4	-14.1	-12.0	51.5	51.5	330.1	506.3	18.7	1.0001090	1.0001090
36000.0	33.0	-14.5	-12.3	51.5	51.5	320.1	505.3	19.2	1.0001073	1.0001073
36500.0	32.6	-14.9	-12.6	51.5	51.5	310.1	504.3	19.7	1.0001056	1.0001056
37000.0	32.2	-15.3	-12.9	51.5	51.5	300.1	503.3	20.2	1.0001039	1.0001039
37500.0	31.8	-15.7	-13.2	51.5	51.5	290.1	502.3	20.7	1.0001022	1.0001022
38000.0	31.4	-16.1	-13.5	51.5	51.5	280.1	501.3	21.2	1.0001005	1.0001005
38500.0	31.0	-16.5	-13.8	51.5	51.5	270.1	500.3	21.7	1.0000988	1.0000988
39000.0	30.6	-16.9	-14.1	51.5	51.5	260.1	499.3	22.2	1.0000971	1.0000971
39500.0	30.2	-17.3	-14.4	51.5	51.5	250.1	498.3	22.7	1.0000954	1.0000954
40000.0	29.8	-17.7	-14.7	51.5	51.5	240.1	497.3	23.2	1.0000937	1.0000937
40500.0	29.4	-18.1	-15.0	51.5	51.5	230.1	496.3	23.7	1.0000920	1.0000920
41000.0	29.0	-18.5	-15.3	51.5	51.5	220.1	495.3	24.2	1.0000903	1.0000903
41500.0	28.6	-18.9	-15.6	51.5	51.5	210.1	494.3	24.7	1.0000886	1.0000886
42000.0	28.2	-19.3	-15.9	51.5	51.5	200.1	493.3	25.2	1.0000869	1.0000869
42500.0	27.8	-19.7	-16.2	51.5	51.5	190.1	492.3	25.7	1.0000852	1.0000852
43000.0	27.4	-20.1	-16.5	51.5	51.5	180.1	491.3	26.2	1.0000835	1.0000835
43500.0	27.0	-20.5	-16.8	51.5	51.5	170.1	490.3	26.7	1.0000818	1.0000818
44000.0	26.6	-20.9	-17.1	51.5	51.5	160.1	489.3	27.2	1.0000801	1.0000801
44500.0	26.2	-21.3	-17.4	51.5	51.5	150.1	488.3	27.7	1.0000784	1.0000784
45000.0	25.8	-21.7	-17.7	51.5	51.5	140.1	487.3	28.2	1.0000767	1.0000767
45500.0	25.4	-22.1	-18.0	51.5	51.5	130.1	486.3	28.7	1.0000750	1.0000750
46000.0	25.0	-22.5	-18.3	51.5	51.5	120.1	485.3	29.2	1.0000733	1.0000733
46500.0	24.6	-22.9	-18.6	51.5	51.5	110.1	484.3	29.7	1.0000716	1.0000716
47000.0	24.2	-23.3	-18.9	51.5	51.5	100.1	483.3	30.2	1.0000699	1.0000699
47500.0	23.8	-23.7	-19.2	51.5	51.5	90.1	482.3	30.7	1.0000682	1.0000682
48000.0	23.4	-24.1	-19.5	51.5	51.5	80.1	481.3	31.2	1.0000665	1.0000665
48500.0	23.0	-24.5	-19.8	51.5	51.5	70.1	480.3	31.7	1.0000648	1.0000648
49000.0	22.6	-24.9	-20.1	51.5	51.5	60.1	479.3	32.2	1.0000631	1.0000631
49500.0	22.2	-25.3	-20.4	51.5	51.5	50.1	478.3	32.7	1.0000614	1.0000614
50000.0	21.8	-25.7	-20.7	51.5	51.5	40.1	477.3	33.2	1.0000597	1.0000597
50500.0	21.4	-26.1	-21.0	51.5	51.5	30.1	476.3	33.7	1.0000580	1.0000580
51000.0	21.0	-26.5	-21.3	51.5	51.5	20.1	475.3	34.2	1.0000563	1.0000563
51500.0	20.6	-26.9	-21.6	51.5	51.5	10.1	474.3	34.7	1.0000546	1.0000546
52000.0	20.2	-27.3	-21.9	51.5	51.5	0.1	473.3	35.2	1.0000529	1.0000529
52500.0	19.8	-27.7	-22.2	51.5	51.5	-10.1	472.3	35.7	1.0000512	1.0000512
53000.0	19.4	-28.1	-22.5	51.5	51.5	-20.1	471.3	36.2	1.0000495	1.0000495
53500.0	19.0	-28.5	-22.							

STATION ALTITUDE 4112.73 FEET MSL
 3 AUG. 62 1048 MDT
 ASCENSION CN.

UNPUBLISHED AIR DATA
 215000Z JULY 1962
 VOLA SITE

GEODETIC COORDINATES
 33.07636 LAT DEG
 106.18294 LON DEG

TABLE 23 Cont'd

GEODETIC PRESSURE ALTIMETER WSL FEET	TEMPERATURE AIR DEGREES MILLIBARS	DE-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY 34/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA KNOTS	INDEX OF REFRACTION
24000.0	413.1	-12.7	23.1	53.7	559.9	629.1	9.7	5.1
24500.0	410.6	-12.6	21.3	52.1	557.9	627.9	8.1	5.5
25000.0	402.7	-14.6	22.5	50.5	542.1	626.7	10.5	6.2
25500.0	396.7	-15.6	23.4	51.7	523.8	625.3	14.8	7.2
26000.0	386.8	-17.1	24.1	54.4	525.7	623.7	15.2	8.1
26500.0	379.0	-18.4	24.9	56.7	517.9	622.1	12.1	8.7
27000.0	371.4	-19.4	25.6	59.2	510.1	620.4	7.1	9.0
27500.0	362.9	-21.1	26.4	61.5	502.5	618.3	4	8.9
28000.0	356.4	-22.2	26.5	55.5	494.5	617.3	35.3	1.000114
28500.0	349.1	-23.5	31.0	48.3	486.5	615.9	34.4	7.4
29000.0	341.2	-24.4	33.6	42.1	478.6	614.5	328.5	6.6
29500.0	334.2	-25.5	36.3	35.2	470.9	513.2	316.4	6.6
30000.0	328.0	-26.6	39.1	29.3	462.5	511.9	315.2	7.4
30500.0	321.1	-27.7	39.1	32.5	455.7	510.4	317.2	8.6
31000.0	314.2	-28.2	39.2	35.9	448.2	508.9	316.5	9.9
31500.0	307.2	-30.2	39.4	39.1	440.8	607.5	315.9	9.9
32000.0	301.3	-31.2	39.7	42.4	433.6	606.1	311.6	9.2
32500.0	296.0	-32.6	40.5	43.8	426.5	504.5	295.6	6.9
33000.0	288.5	-33.0	41.4	46.8	419.4	503.1	270.8	7.6
33500.0	282.2	-34.5	42.3	45.5	412.5	601.5	252.7	10.8
34000.0	276.2	-36.0	43.2	46.5	405.8	600.3	258.6	13.2
34500.0	270.1	-37.3	43.9	49.9	399.2	596.3	256.4	14.5
35000.0	264.4	-38.7	45.2	47.7**	392.8	596.5	253.7	14.2
35500.0	258.4	-40.0	46.9	29.9**	386.3	594.9	1.000086	1.000085
36000.0	252.2	-41.2	40.5	10.2**	379.9	593.3		

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SATION ALTITUDE 110.79 FT. MSL
2 AUG. 1967 1048 MOT
ASCENSION NO.

WEATHER LEVELS
10000 FT. SLH

GEODDATIC COORDINATES
33.07436 LAT DEG
106.18294 LON DEG

TABLE 24

PRESSURE MILLIBARS	TEMPERATURE DEGREES FAHRENHEIT	AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN) KNOTS
850.0	5273.	51.9	14.5	345.6 3.5
850.0	5729.	49.5	10.1	235.6 1.7
720.0	84.5	45.2	7.4	25.2 9.7
720.0	15515.	12.5	4.8	35.4 11.2
620.0	12545.	7.7	2.4	24.6 13.2
450.0	14497.	7.5	-2.6	24.9 24.6
450.0	17000.	-4	-7.9	47.4 15.0
450.0	19479.	-5.5	-11.0	7.4 8.6
450.0	22172.	-0.5	-16.9	13.2 2.5
450.0	25139.	-14.9	-23.0	13.2 6.5
450.0	25392.	-23.7	-30.7	34.4 7.5
250.0	27036.	-31.4	-39.8	43. 7.6
250.0	27150.	-41.0		210.8

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4155.74 FEET MSL
3 AUG. '54
ASCENSION NO. 1048 MDT

POSITIONAL LEVEL DATA
C122410014
S11A

GEODETIC COORDINATES
33°18'29" LAT DEG
136°15'11" LON DEG

TABLE 25

POSITION MILLIBARS	STATION MSL FET	ALTITUDE FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
377.7	4195.7	35.5	17.9	63.0	
577.2	4520.5	35.3	16.0	56.0	
557.0	5074.7	21.4	14.3	62.0	
915.2	5242.1	18.5	13.8	74.0	
901.9	5747.4	18.5	12.5	69.0	
756.4	8218.9	15.7	7.7	59.0	
725.8	2115.5	15.4	5.5	52.0	
720.3	17538.3	11.8	4.3	60.0	
636.7	14437.8	3.5	-2.9	63.0	
646.8	15399.9	1.7	-5.6	54.0	
552.2	17397.3	-1.5	-9.4	59.0	
542.3	17386.2	-1.8	-10.8	50.0	
533.2	19495.0	-6.3	-11.4	62.0	
678.4	20627.5	-8.5	-11.3	61.0	
463.2	21615.8	-9.7	-13.5	72.0	
452.4	22250.3	-9.7	-15.2	59.0	
433.0	25164.1	-15.6	-22.5	55.0	
795.3	25477.0	-16.8	-24.3	52.0	
764.1	27652.5	-21.2	-27.2	58.0	
432.8	29615.9	-26.0	-35.4	50.0	
750.0	32050.7	-31.7	-39.8	44.0	
294.2	32514.2	-33.0	-41.2	43.0	
567.3	34710.7	-38.4	-44.0	55.0	
750.0	34212.5	-42.5			

STATISTICAL SURVEY OF THE U.S. 1850

STATION ALTITUDE 6155.74 FEET MSL
 4 AUG. 6 1048 MDT
 ASCENSION NO. 14

JOHNS ALM 0214
 153213Z14
 6114

TABLE 26 Cont'd

GEOMETRIC PRESSURE	PRESSURE	TEMPERATURE	REFRACTION	DENSITY	SPED. OF	DIRECTION	WIND DATA	INDEX
ALTITUDE	ALTITUDE	AIR SCAPTION	PERCENT	CM/CUBIC	WATER	DEGREES (TN)	SPEED (KNOTS)	OF
MSL FEET	MILES	DEGREES CIVILIAN	PERCENT	METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
24500.0	415.4	-15.6	-0.5	55.5	560.9	528.2	3.9	5.6
24500.0	415.4	-14.4	-0.2	55.5	551.9	527.3	2.5	6.4
25500.0	402.7	-15.1	-0.2	55.5	543.1	525.8	2.5	1.000129
25500.0	396.2	-15.9	-0.4	52.2	535.7	523.8	1.9	7.2
25500.0	396.2	-15.9	-0.4	52.2	527.1	522.5	1.9	1.000127
25500.0	396.2	-15.9	-0.4	52.2	527.1	522.5	1.9	1.000124
26500.0	375.5	-12.1	-0.8	55.5	516.7	621.2	2.5	7.8
26500.0	375.5	-12.1	-0.8	55.5	516.7	619.8	1.4	1.000126
27500.0	370.9	-20.4	-2.6	56.7	502.3	618.5	2.1	7.4
27500.0	363.4	-21.3	-2.7	57.4	494.2	517.1	1.9	1.000116
27500.0	355.9	-22.4	-2.9	59.9	486.3	615.7	1.3	1.000113
27500.0	346.4	-23.5	-3.2	44.4	478.4	614.3	5.5	5.5
27500.0	346.4	-24.5	-3.2	44.4	470.7	612.9	5.5	1.000106
27500.0	341.4	-24.5	-3.2	44.4	462.7	611.4	5.5	1.000106
27500.0	334.4	-25.7	-37.6	31.5	453.5	510.3	8.0	1.000104
27500.0	327.4	-26.9	-36.5	32.2	455.5	510.0	9.2	1.000103
27500.0	322.5	-26.1	-35.7	35.1	455.5	510.0	9.2	1.000103
27500.0	315.5	-25.5	-35.7	37.9	448.1	608.5	3.9	9.8
27500.0	312.8	-23.2	-35.7	40.5	460.8	607.1	3.2	1.000097
27500.0	307.2	-30.4	-39.4	43.7	433.5	605.6	2.2	6.9
27500.0	300.5	-31.6	-39.8	41.2	426.9	593.9	2.2	7.8
27500.0	294.6	-33.1	-41.2	43.3	419.8	572.3	1.9	1.000096
27500.0	289.0	-34.2	-41.8	45.7	412.9	600.7	1.7	7.4
27500.0	281.8	-35.4	-42.4	48.4	406.1	599.2	1.7	1.000093
27500.0	275.7	-36.7	-43.3	51.1	399.6	597.5	1.1	1.000091
27500.0	269.5	-37.4	-43.7	53.5	392.7	595.9	0.7	12.9
27500.0	263.9	-39.2	-45.7	44.6**	392.7	595.9	0.5	1.000086
27500.0	255.1	-45.2	-52.5	26.1**	356.6	594.1	0.3	1.000086
27500.0	252.4	-42.0	-43.2	7.6**	360.6	592.3	0.1	1.000085

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION LATITUDE 41°55.74' ECLT MSL
3 AUG. 34 1048 MDT
ASCENSION NO. 14

VISUALITY LEVELS

1500-1200

6-14

GEODATIC COORDINATES
33°18'29" LAT DEG
106°15'14" LON DEG

TABLE 27

PRESSURE STATION	ELEVATION MILLIBARS	TEMPERATURE			WIND DATA	
		FEET	DEGREES	CENTIGRADE	PERCENT NEWPOINT	DIRECTION DEGREES (TN)
850.0	5091.	21.1	14.3	62.	19.2	1.9
820.0	5070.	18.6	10.4	60.	325.2	3.0
790.0	5614.	15.6	5.6	55.	34.3	6.7
760.0	10520.	11.8	4.2	60.	28.4	9.6
650.0	16551.	7.5	0.6	62.	12.5	11.0
130.0	14700.	7.7	-3.9	50.	29.7	9.5
130.0	15996.	-1.5	-9.5	59.	43.8	9.5
130.0	19468.	-6.1	-11.6	67.	6.0	9.0
500.0	22152.	-10.0	-15.5	57.	6.9	2.4
450.0	25123.	-15.6	-22.5	55.	2.9	7.4
400.0	25357.	-22.1	-31.7	46.	354.0	5.5
350.0	31998.	-31.7	-37.8	44.	295.5	7.7
250.0	36136.	-42.6				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 11,000 FT. MSL
5 AUG. 94
ASCENSION NO. 1046 MDI

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GEODETIC COORDINATES
53° 16' 55" LAT DEG
160° 35' 07" LON DEG

33

WILLIAMS WILL FIGHT FOR THESE CIVIL RIGHTS AT A POINT OF CRISIS

63

STATION ALTITUDE 6000 FT
2 AUG. 1968
1048 MDT
ASCENSION ISL.

WIND DIRECTION
180 DEG

WIND SPEED
29

GEODETIC COORDINATES
13°12'55" LAT DEC
196°35'90" LON DEG

GEODETIC ALTITUDE MSL FLEET	PRESSURE MILLIBARS	TEMPERATURE DEG C	WIND COMPONENT DEGREES CINIGRADE	WIND SPEED KNOTS	WIND DIRECTION DEGREES (TN)	INDEX OF REFRACTION
6000.0	1030.7	16.7	1016.5	677.5	0.0	1.000506
6500.0	995.3	15.7	1055.1	674.0	1.1	1.000293
15000.0	851.2	13.2	997.1	571.9	2.2	1.000286
5500.0	826.5	20.4	956.0	659.7	3.3	1.000285
6000.0	821.2	11.5	971.0	558.9	3.8	1.000277
6500.0	827.4	12.2	956.6	448.1	4.0	1.000269
7000.0	795.4	15.4	962.5	557.1	5.2	1.000263
7500.0	772.2	17.2	926.7	636.1	6.5	1.000257
8000.0	755.4	16.8	915.0	645.1	8.0	1.000251
8500.0	752.1	16.0	931.5	664.1	9.9	1.000245
9000.0	735.4	15.2	882.4	553.1	11.9	1.000240
9500.0	725.6	14.2	875.5	562.0	13.7	1.000236
10000.0	711.6	13.2	862.3	550.8	14.7	1.000235
10500.0	697.2	12.3	850.3	559.7	15.5	1.000234
11000.0	682.3	11.1	838.7	658.2	16.0	1.000234
11500.0	676.9	9.9	827.2	656.9	16.1	1.000234
12000.0	662.5	9.9	815.1	555.6	15.1	1.000235
12500.0	650.6	8.6	833.9	654.4	12.1	1.000236
13000.0	639.8	7.9	791.0	653.3	14.6	1.000231
13500.0	625.4	6.1	779.3	652.1	22.4	1.000231
14000.0	615.7	5.2	757.9	551.0	9.9	1.000197
14500.0	606.1	4.6	756.4	549.8	39.3	1.000191
15000.0	596.9	4.2	766.4	548.2	43.7	1.000192
15500.0	581.6	3.6	735.5	546.7	46.4	1.000157
16000.0	570.2	3.1	727.4	625.9	47.6	1.000198
16500.0	559.0	2.7	717.1	544.4	21.7	1.000174
17000.0	549.7	1.7	701.3	643.5	48.4	1.000173
17500.0	540.4	1.7	690.7	542.5	34.7	1.000174
18000.0	531.2	1.0	650.2	541.1	38.5	1.000177
18500.0	519.0	0.7	670.9	540.0	7.7	1.000156
19000.0	509.7	0.7	599.2	574.7	7.4	1.000164
19500.0	499.4	0.7	549.1	517.2	7.4	1.000157
20000.0	489.1	0.7	539.7	516.5	7.1	1.000157
20500.0	479.8	0.7	629.4	535.2	6.3	1.000156
21000.0	469.5	0.7	744.8	514.6	6.4	1.000151
21500.0	459.2	0.7	507.8	513.9	6.2	1.000147
22000.0	448.9	0.7	595.5	574.2	7.1	1.000141
22500.0	438.7	0.7	556.1	522.6	7.1	1.000146
23000.0	428.4	0.7	527.5	511.4	6.8	1.000140
23500.0	418.1	0.7	568.9	514.7	6.8	1.000134

STATION ALTITUDE 673.7 FEET
AUG. 2, 1963
ASCENSION NO. 1048 MDT

GEODETIC COORDINATES
33°15'46.3" LAT
106°15'46.4" LONG

GEODETIC COORDINATES
23°12'55.5" LAT DEG
106°15'07.7" LONG DEG

TABLE 29 Cont'd

GEODETIC PRESSURE	TEMPERATURE	REL. HUM.	DENSITY	SPEED OF SOUND	DIRECTION DEGREES (T)	DATA SPEED KNOTS	INDEX OF REFRACTION
ALTITUDE MSL FEET	AT 100000 MILLIBARS	AT CENTIGR	WATER	KNOTS	DEGREES	KNOTS	
24000.0	-13.2	-21.4	69.1	550.2	528.6	758.9	1.000131
24200.0	-13.1	-22.7	69.3	551.9	526.7	758.7	1.000126
25000.0	-15.7	-12.7	49.4	543.5	625.4	755.7	1.000126
25500.0	-15.3	-29.5	48.5	535.1	624.0	752.7	1.000124
26000.0	-13.6	-12.9	47.4	526.7	622.6	749.2	1.000121
26500.0	-17.6	-19.0	50.0	518.1	521.3	752.2	1.000119
27000.0	-27.5	-29.0	53.2	509.7	520.1	752.2	1.000117
27500.0	-153.2	-21.0	57.0	501.4	518.8	6.0	1.000116
28000.0	-355.7	-22.4	56.5	493.9	517.8	2.7	1.000115
28500.0	-345.5	-23.6	56.0	495.4	517.1	2.7	1.000115
29000.0	-241.1	-24.7	57.7	479.4	514.1	527.8	1.000114
29500.0	-234.2	-25.7	73.5	470.4	512.9	317.3	7.2
30000.0	-227.2	-26.9	36.4	462.8	511.4	311.3	8.8
30500.0	-323.3	-28.1	33.2	455.3	579.7	204.3	2.6
31000.0	-213.6	-23.3	38.5	45.1	468.9	323.6	9.7
31500.0	-202.3	-32.4	39.2	42.0	44.0.9	297.3	9.0
32000.0	-303.5	-31.8	40.3	43.3.7	505.8	285.1	8.6
32500.0	-294.1	-32.9	40.7	45.0	426.4	605.9	271.6
33000.0	-287.8	-36.0	41.5	45.1	419.2	572.5	252.4
33500.0	-281.7	-35.1	42.3	47.2	412.1	611.2	256.6
34000.0	-275.6	-36.2	43.4	47.0	435.1	579.2	252.5
34500.0	-269.5	-37.3	45.2	43.0	398.3	593.3	249.4
35000.0	-253.7	-35.9	48.5	33.7**	371.5	596.7	247.9
35500.0	-258.5	-33.9	46.1	13.9**	355.2	595.1	1.000088
36000.0	-252.4	-41.2	-64.7	5.5**	378.9	593.4	1.000084

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4000.0 FT
3 AUG. 65 1048 MET
ASCENSION ISL.

WEATHER DETAILS
1000 1000 1000
2000 2000 2000
3000 3000 3000
4000 4000 4000
5000 5000 5000
6000 6000 6000
7000 7000 7000
8000 8000 8000
9000 9000 9000
10000 10000 10000
11000 11000 11000
12000 12000 12000
13000 13000 13000
14000 14000 14000
15000 15000 15000
16000 16000 16000
17000 17000 17000
18000 18000 18000
19000 19000 19000
20000 20000 20000
21000 21000 21000
22000 22000 22000
23000 23000 23000
24000 24000 24000
25000 25000 25000

GEODETIC COORDINATES
1.42355 LAT DEG
106.15937 LON DEG

DETAILED OBSERVATIONS
1000 1000 1000
2000 2000 2000
3000 3000 3000
4000 4000 4000
5000 5000 5000
6000 6000 6000
7000 7000 7000
8000 8000 8000
9000 9000 9000
10000 10000 10000
11000 11000 11000
12000 12000 12000
13000 13000 13000
14000 14000 14000
15000 15000 15000
16000 16000 16000
17000 17000 17000
18000 18000 18000
19000 19000 19000
20000 20000 20000
21000 21000 21000
22000 22000 22000
23000 23000 23000
24000 24000 24000
25000 25000 25000

*WHEELSAPS	FRICTION	STATION ALTITUDE	TEMPERATURE	RELATIVE HUMIDITY	DATA	
					DEGREES CELSIUS	PERCENT
810.0	504.0	13.0	57.0	356.0	2.0	
625.0	524.0	15.0	56.0	356.0	6.0	
750.0	557.0	16.0	54.0	32.0	10.0	
700.0	1045.0	16.0	54.0	53.0	10.0	
650.0	1051.0	16.0	54.0	59.0	13.0	
520.0	1662.0	17.0	52.0	43.0	15.0	
550.0	1695.0	17.0	51.0	60.0	12.0	
500.0	1744.0	17.0	50.0	60.0	7.0	
450.0	2013.0	18.0	47.0	55.0	7.0	
400.0	2087.0	18.0	46.0	50.0	6.0	
350.0	2574.0	18.0	45.0	56.0	5.0	
300.0	21952.0	19.0	44.0	56.0	4.0	
250.0	25127.0	19.0	41.0	255.0	8.0	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

END

ENDED

ERIC